



## **Cisco Nexus 3000 Series NX-OS N3K Mode Command Reference (Show Commands), Release 9.3(1)**

**First Published:** 2019-09-24

### **Americas Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
<http://www.cisco.com>  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0883





## CONTENTS

---

### PREFACE

<b>Preface</b>	<b>ixv</b>
Audience	<b>ixv</b>
Documentation Conventions	<b>ixv</b>
Documentation Feedback	<b>ixvi</b>
Communications, Services, and Additional Information	<b>ixvi</b>

---

### CHAPTER 1

<b>Notice</b>	<b>1</b>
Notice	<b>2</b>

---

### CHAPTER 2

<b>Introduction</b>	<b>3</b>
Introduction	<b>4</b>

---

### PART I

<b>All Show Commands</b>	<b>5</b>
--------------------------	----------

---

### CHAPTER 3

<b>A Show Commands</b>	<b>7</b>
show aaa accounting	<b>8</b>
show aaa authentication	<b>9</b>
show aaa authentication login	<b>10</b>
show aaa authentication login ascii-authentication	<b>11</b>
show aaa authentication login error-enable	<b>12</b>
show aaa authentication login invalid-username-log	<b>13</b>
show aaa authorization	<b>14</b>
show aaa bypass-user	<b>15</b>
show aaa client radius statistics	<b>16</b>
show aaa groups	<b>17</b>
show aaa local user blocked	<b>18</b>

show aaa server radius statistics	19
show aaa user default-role	20
show access-list	21
show access-list database	24
show access-lists	25
show access-lists	27
show accounting log	32
show accounting log all	33
show accounting log last-index	34
show accounting log nvram	35
show accounting log nvram last-index	36
show accounting log nvram start-seqnum	37
show accounting log start-seqnum	38
show acl status	39
show amt process	40
show amt vrf all	42
show archive log config	43
show arp access-lists	44

---

**CHAPTER 4****B Show Commands 47**

show background	49
show banner exec	50
show banner motd	51
show bash-shell	52
show bfd clients	53
show bfd neighbors	54
show bgp	58
show bgp	64
show bgp	67
show bgp	75
show bgp	81
show bgp	84
show bgp bmp server	86
show bgp community	89

show bgp convergence	95
show bgp dampening dampened	97
show bgp dampening flap-statistics	103
show bgp dampening parameters	106
show bgp evi	109
show bgp extcommunity	111
show bgp l3vpn	117
show bgp neighbors	119
show bgp neighbors	129
show bgp neighbors commands	135
show bgp neighbors flap-statistics	137
show bgp neighbors paths	139
show bgp paths	141
show bgp peer-template	142
show bgp peer	146
show bgp prefix-list	148
show bgp private attr	153
show bgp private debug history	154
show bgp process	155
show bgp received-paths	160
show bgp regexp	166
show bgp self-originated	171
show bgp sessions	176
show bgp statistics	178
show bgp summary	179
show bgp summary	183
show boot	188
show boot auto-copy	189
show boot auto-copy list	190
show boot current	191
show boot mode	192
show boot order	193
show boot timings	194
show boot variables	195

## CHAPTER 5

**C Show Commands 197**

show callhome	200
show callhome destination-profile	202
show callhome destination-profile profile	203
show callhome destination-profile profile CiscoTAC-1	204
show callhome destination-profile profile full-txt-destination	205
show callhome destination-profile profile short-txt-destination	206
show callhome transport-email	207
show callhome transport	208
show callhome user-def-cmds	210
show catena	211
show catena analytics	212
show cdp	214
show cdp all	216
show cdp global	217
show cdp neighbors	218
show cdp neighbors detail	219
show cdp traffic interface2	221
show cdp traffic interface2 all	222
show cfs application	223
show cfs lock	224
show cfs merge status	225
show cfs peers	227
show cfs regions	228
show cfs status	230
show checkpoint	231
show checkpoint	232
show checkpoint summary	233
show class-map	234
show class-map type control-plane	236
show class-map type network-qos	237
show cli alias	238
show cli dynamic-cmd	239

show cli dynamic integers	240
show cli dynamic strings	241
show cli history	242
show cli interface table	243
show cli list	244
show cli syntax	245
show cli variables	246
show clock	247
show config-profile	248
show config-profile applied	249
show config-replace log exec	250
show config-replace status	251
show config-template	252
show configuration session	253
show configuration session	254
show configuration session global-info	255
show configuration session status	256
show configuration session summary	257
show configuration session vsh	258
show consistency-checker copp	259
show consistency-checker dme interfaces	260
show consistency-checker egress-xlate private-vlan	261
show consistency-checker forwarding ipv6	262
show consistency-checker forwarding show forwarding inconsistency	264
show consistency-checker forwarding single-route ipv4 vrf	266
show consistency-checker kim	267
show consistency-checker kim interface	268
show consistency-checker l2-tahoe module	269
show consistency-checker l2-tahoe switchport interface	270
show consistency-checker l2 multicast group source vlan	271
show consistency-checker l3-interface module	272
show consistency-checker l3 multicast source vrf	273
show consistency-checker link-state fabric-ieth	274
show consistency-checker link-state module	275

show consistency-checker membership port-channels	276
show consistency-checker membership vlan	277
show consistency-checker port-state	278
show consistency-checker port-state fabric-ieth	279
show consistency-checker racl module	280
show consistency-checker racl port-channels	281
show consistency-checker racl svi interface	282
show consistency-checker stp-state vlan	283
show consistency-checker vxlan config-check	284
show consistency-checker vxlan pv	285
show consistency-checker vxlan vlan	286
show controller accounting log	287
show copp status	288
show copyright	289
show cores	290
show crypto ca certificates	291
show crypto ca certificates	292
show crypto ca certstore	293
show crypto ca crl	294
show crypto ca remote-certstore	295
show crypto ca trustpoints	296
show crypto ca trustpool	297
show crypto ca trustpool last download status	298
show crypto ca trustpool policy	299
show crypto certificatemap	300
show crypto key mypubkey rsa	301
show crypto ssh-auth-map	302
show cts	303
show current	304

## CHAPTER 6

**D Show Commands** 305

show diagnostic bootup level	306
show diagnostic description module test all	307
show diagnostic events	308



show diagnostic result module	309
show diagnostic result module all	311
show diff rollback-patch	313
show dot1q-tunnel	314
show dot1q-tunnel interface	315
show dot1x	316
show dot1x all	317
show dot1x all details	319
show dot1x all statistics	322
show dot1x all summary	324
show dot1x interface	325
show dot1x interface client statistics	329
show dot1x interface client statistics address	331

---

**CHAPTER 7**
**E Show Commands 333**

show ecp	334
show elam report	336
show email	337
show encryption service stat	338
show environment	339
show errdisable detect	345
show errdisable flap	346
show evb	347
show evb hosts	348
show evb vsi	350
show event manager environment	352
show event manager event-types	353
show event manager events action-log	354
show event manager history events	355
show event manager policy-state	356
show event manager script system	357
show event manager system-policy	358

---

**CHAPTER 8**
**F Show Commands 359**

show fabric database dc1	363
show fabric database host	365
show fabric database host statistics	369
show fabric database host summary	372
show fabric database profile-map	373
show fabric database static-host	374
show fabric database statistics	375
show fabric forwarding host-db	377
show fabric forwarding ip local	379
show fabric forwarding ipv6 local	380
show fabric multicast globals	381
show fabric multicast ipv4 l2 vni	382
show fabric multicast statistics	383
show fabric multicast vrf	384
show fc2 bind	385
show fc2 classf	386
show fc2 exchange	388
show fc2 exchresp	390
show fc2 flogi	392
show fc2 nport	393
show fc2 plogi	395
show fc2 plogi_pwwn	397
show fc2 port brief	398
show fc2 port drops	401
show fc2 port state	404
show fc2 socket	406
show fc2 sockexch	407
show fc2 socknotify	408
show fc2 socknport	409
show fc2 vsan	410
show fcdroplateny	411
show fcoe-npv issu-impact	412
show fcoe	413
show fcoe database	414

show fctimer	415
show fctimer D_S_TOV	416
show fctimer E_D_TOV	417
show fctimer F_S_TOV	418
show fctimer R_A_TOV	419
show fctimer last action status	420
show fctimer pending-diff	421
show fctimer pending	422
show fctimer session status	423
show fctimer status	424
show fctimer vsan	425
show feature-set	426
show feature-set services	427
show feature	428
show fhrp	429
show fhrp verbose	430
show file	432
show fips status	433
show flow cache	434
show flow cache	436
show flow exporter	438
show flow exporter	440
show flow filter	442
show flow interface	443
show flow monitor	444
show flow monitor	445
show flow profile	446
show flow record	448
show flow record	451
show flow rtp	454
show flow rtp timeout	456
show flow system	457
show flow timeout	459
show flow tracer	460

show forwarding	461
show forwarding adjacency	462
show forwarding distribution clients	465
show forwarding distribution fib-state	466
show forwarding distribution ip igmp snooping	467
show forwarding distribution ipv6 multicast route	468
show forwarding distribution l2 multicast	470
show forwarding distribution lisp counters	472
show forwarding distribution lisp vrf enabled	473
show forwarding distribution multicast	474
show forwarding distribution multicast client-ack-db	475
show forwarding distribution multicast client	476
show forwarding distribution multicast download	477
show forwarding distribution multicast mfib	478
show forwarding distribution multicast outgoing-interface-list L2_PRIME	479
show forwarding distribution multicast resp-ack-timer-msgs	480
show forwarding distribution multicast route	481
show forwarding distribution multicast vxlan dsg-db	484
show forwarding distribution nve overlay-vlan	485
show forwarding distribution peer-id	486
show forwarding distribution trace	487
show forwarding ecmp	488
show forwarding ecmp recursive	490
show forwarding interfaces	495
show forwarding ipv6 adjacency	496
show forwarding ipv6 inconsistency	498
show forwarding ipv6 multicast route	500
show forwarding kvfib cache on	503
show forwarding l2 multicast	504
show forwarding l2vpn label vpls	506
show forwarding l2vpn label xconnect	507
show forwarding l2vpn vlan	508
show forwarding mpls	509
show forwarding mpls drop-stats	511

show forwarding mpls ecmp	512
show forwarding mpls eompls	514
show forwarding mpls eompls ir	515
show forwarding mpls srte module	517
show forwarding mpls summary	518
show forwarding multicast-sr loopback interface	519
show forwarding multicast outgoing-interface-list	520
show forwarding multicast route	522
show forwarding nve l2 ingress-replication-peers	525
show forwarding nve l3 adjacency tunnel	527
show forwarding nve l3 adjacency v6-tunnel	529
show forwarding nve l3 ecmp	531
show forwarding nve l3 peers	532
show forwarding nve underlay-interfaces	533
show forwarding otv	534
show forwarding security group-tag	535
show forwarding security mac	537
show forwarding trace	539
show forwarding trace profile	540
show forwarding trace profile funcstats	541
show fte event	542
show fte exporter	543
show fte monitor	544
show fte record	545

---

**CHAPTER 9****G Show Commands** 547

show guestshell	548
-----------------	-----

---

**CHAPTER 10****H Show Commands** 551

show hardware	553
show hardware access-list lou resource threshold	556
show hardware access-list resource pooling	557
show hardware capacity	558
show hardware capacity eobc	559

show hardware capacity forwarding	560
show hardware capacity interface	561
show hardware capacity module	562
show hardware capacity power	564
show hardware fabricpath mac-learning module	565
show hardware feature-capability	566
show hardware flow aging	567
show hardware flow entry address type	568
show hardware flow etrap	569
show hardware flow ip	570
show hardware flow ipv6	571
show hardware flow l2	572
show hardware flow mpls	573
show hardware flow sampler	574
show hardware flow utilization	575
show hardware forwarding interface statistics mode	576
show hardware forwarding memory health detail	577
show hardware forwarding memory health summary	580
show hardware ip verify	582
show hardware profile packet-drop	583
show hardware profile status	584
show hardware profile tcam region	586
show hardware qos eoq stats-class	587
show hardware qos include ipg	588
show hardware qos ing-pg-hdrm-reserve	589
show hardware qos ing-pg-no-min	590
show hardware qos ing-pg-share	591
show hardware qos min-buffer	592
show hardware qos ns-buffer-profile	593
show hardware rate-limiter	594
show hardware rate-limiter span-egress	596
show hostname	597
show hosts	598
show hsrp	600

[show hsrp anycast](#) 604  
[show hsrp anycast interface vlan](#) 605  
[show hsrp anycast remote-db](#) 606  
[show hsrp anycast summary](#) 607  
[show hsrp bfd-sessions](#) 608  
[show hsrp delay](#) 610  
[show hsrp mgo](#) 611  
[show hsrp summary](#) 612

---

**CHAPTER 11**
**I Show Commands 615**

[show icam entries acl module inst](#) 625  
[show icam health](#) 627  
[show icam itd](#) 628  
[show icam prediction entries acl module inst](#) 629  
[show icam prediction scale](#) 631  
[show icam scale](#) 637  
[show ieth-header-decode](#) 644  
[show inband-telemetry exporter](#) 645  
[show inband-telemetry flow-profile](#) 646  
[show inband-telemetry monitor](#) 647  
[show inband-telemetry queue-profile](#) 648  
[show inband-telemetry record](#) 649  
[show inband-telemetry sessions](#) 650  
[show inband-telemetry watchlist](#) 651  
[show incompatibility-all system](#) 652  
[show incompatibility system](#) 653  
[show install](#) 654  
[show install all failed-standby](#) 655  
[show install all failure-reason](#) 656  
[show install all impact](#) 657  
[show install all status](#) 658  
[show install all time-stats](#) 659  
[show install log](#) 660  
[show install mode](#) 661

show install packages	662
show install patches	663
show interface	664
show interface	668
show interface	673
show interface	678
show interface	686
show interface	690
show interface	710
show interface	712
show interface	718
show interface	720
show interface aggregate-counters	724
show interface aggregate-counters	727
show interface bberedit	730
show interface brief	731
show interface brief	732
show interface brief	740
show interface brief	742
show interface brief	743
show interface brief	745
show interface brief	746
show interface brief	747
show interface brief	748
show interface cable-diagnostics-tdr	749
show interface capabilities	750
show interface capabilities	752
show interface capabilities	754
show interface counters	756
show interface counters	758
show interface counters	762
show interface counters	763
show interface counters	765
show interface counters	767



show interface counters	769
show interface counters	771
show interface counters brief	772
show interface counters brief	774
show interface counters detailed	776
show interface counters detailed	788
show interface counters detailed	791
show interface counters detailed	793
show interface counters detailed all	799
show interface counters detailed all	807
show interface counters detailed all	808
show interface counters detailed all	811
show interface counters detailed all	813
show interface counters detailed cached	814
show interface counters details	822
show interface counters details	823
show interface counters errors	827
show interface counters errors	829
show interface counters errors	831
show interface counters snmp	832
show interface counters snmp	834
show interface counters storm-control	836
show interface counters storm-control	837
show interface counters table	838
show interface counters table verbose	839
show interface counters trunk	840
show interface debounce	841
show interface debounce	842
show interface description	843
show interface description	844
show interface description	845
show interface description	846
show interface description	847
show interface description	848

show interface description	849
show interface description	850
show interface detail-counters	851
show interface fcoe	855
show interface fec	856
show interface flowcontrol	857
show interface flowcontrol	858
show interface hardware-mappings	859
show interface mac-address	860
show interface mac-address	861
show interface priority-flow-control	862
show interface private-vlan mapping	863
show interface pruning	864
show interface snmp-ifindex	865
show interface status	866
show interface status	867
show interface status	868
show interface status	870
show interface status	871
show interface status	872
show interface status	873
show interface status err-disabled	874
show interface status err-disabled	875
show interface status err-vlans	876
show interface status err-vlans	877
show interface switchport	878
show interface switchport	880
show interface switchport backup	882
show interface transceiver	884
show interface transceiver	892
show interface transceiver	896
show interface trunk	906
show interface trunk	908
show interface trunk vsan	910

show interface trunk vsan	911
show interface untagged-cos	912
show interface vlan mapping	913
show inventory	914
show ip adjacency	915
show ip amt relay	918
show ip amt route	919
show ip amt tunnel	920
show ip arp	922
show ip arp anycast topo-info	924
show ip arp client	925
show ip arp controller-statistics	926
show ip arp esi	927
show ip arp inspection	928
show ip arp inspection interfaces	929
show ip arp inspection log	930
show ip arp inspection statistics	931
show ip arp inspection vlan	932
show ip arp l2 statistics interface	933
show ip arp multihoming-statistics	934
show ip arp off-list	936
show ip arp open-flow error-statistics	937
show ip arp statistics	939
show ip arp suppression-cache	943
show ip arp suppression topo-info	946
show ip arp tunnel-statistics	947
show ip arp vpc-statistics	949
show ip as-path-access-list	952
show ip client	953
show ip community-list	954
show ip dhcp global statistics	955
show ip dhcp option82 suboption info interface	957
show ip dhcp relay	958
show ip dhcp relay address	960

show ip dhcp relay information trusted-sources	961
show ip dhcp relay statistics	962
show ip dhcp snooping	966
show ip dhcp snooping binding	967
show ip dhcp snooping statistics	968
show ip dhcp status	969
show ip dns source-interface	970
show ip dns source-interface vrf all	971
show ip eigrp	972
show ip eigrp accounting	976
show ip eigrp interfaces	978
show ip eigrp traffic	981
show ip extcommunity-list	983
show ip fib distribution	984
show ip fib distribution clients	985
show ip fib distribution mroute	986
show ip fib distribution multicast	988
show ip fib distribution state	989
show ip fib mroute	990
show ip fib route	992
show ip ftp source-interface	994
show ip ftp source-interface vrf all	995
show ip http source-interface	996
show ip http source-interface vrf all	997
show ip igmp groups	998
show ip igmp interface	1000
show ip igmp local-groups	1004
show ip igmp policy statistics reports	1006
show ip igmp snooping	1007
show ip igmp snooping explicit-tracking	1009
show ip igmp snooping filter details	1011
show ip igmp snooping groups	1012
show ip igmp snooping lookup-mode	1015
show ip igmp snooping mac-oif	1016

show ip igmp snooping mrouter	1017
show ip igmp snooping pw vlan brief	1019
show ip igmp snooping querier	1020
show ip igmp snooping report statistics	1022
show ip igmp snooping statistics	1023
show ip igmp vrf all	1027
show ip interface	1028
show ip lisp	1033
show ip lisp data-cache	1034
show ip lisp locator-hash	1035
show ip lisp map-cache	1036
show ip lisp statistics	1037
show ip lisp translate-cache	1038
show ip load-sharing	1039
show ip local policy	1040
show ip logging	1041
show ip mbgp	1042
show ip mbgp	1043
show ip mbgp community	1045
show ip mbgp dampening	1046
show ip mbgp extcommunity	1047
show ip mbgp flap-statistics	1048
show ip mbgp neighbors	1049
show ip mbgp nexthop-database	1051
show ip mbgp nexthop	1052
show ip mbgp prefix-list	1053
show ip mbgp received-paths	1054
show ip mroute	1055
show ip msdp count	1059
show ip msdp mesh-group	1060
show ip msdp peer	1061
show ip msdp policy statistics sa-policy in	1064
show ip msdp rpf	1066
show ip msdp sa	1068

show ip msdp sources	1070
show ip msdp statistics	1071
show ip msdp summary	1073
show ip nat-alias	1075
show ip nat max	1076
show ip nat statistics	1077
show ip nat timeout	1080
show ip nat translations	1081
show ip ospf	1083
show ip ospf border-routers	1088
show ip ospf database	1090
show ip ospf database database-summary	1093
show ip ospf database detail	1095
show ip ospf interface	1101
show ip ospf interface brief	1104
show ip ospf lsa-content-changed-list	1106
show ip ospf neighbors	1108
show ip ospf neighbors detail	1110
show ip ospf neighbors summary	1113
show ip ospf request-list	1115
show ip ospf retransmission-list	1117
show ip ospf route	1119
show ip ospf route summary	1122
show ip ospf segment-routing adj-sid-database	1124
show ip ospf segment-routing global-block	1125
show ip ospf segment-routing sid-database	1126
show ip ospf sham-links	1128
show ip ospf sham-links brief	1132
show ip ospf statistics	1133
show ip ospf summary-address	1137
show ip ospf traffic	1138
show ip ospf virtual-links	1142
show ip ospf virtual-links brief	1146
show ip pim config-sanity	1147

show ip pim df	1149
show ip pim fabric info	1151
show ip pim fabric legacy-vlans	1152
show ip pim group-range	1153
show ip pim host-proxy	1154
show ip pim interface	1155
show ip pim mdt	1159
show ip pim mdt bgp	1161
show ip pim mdt history interval	1162
show ip pim mdt receive	1163
show ip pim mdt send	1164
show ip pim neighbor	1165
show ip pim oif-list	1166
show ip pim policy statistics	1168
show ip pim policy statistics jp	1170
show ip pim route	1171
show ip pim rp-hash	1175
show ip pim rp	1176
show ip pim statistics	1179
show ip pim vrf	1181
show ip ping source-interface	1182
show ip ping source-interface vrf all	1183
show ip policy	1184
show ip prefix-list	1185
show ip process	1186
show ip rip	1188
show ip rip interface	1190
show ip rip neighbor	1192
show ip rip policy statistics redistribute	1194
show ip rip route	1196
show ip rip statistics	1198
show ip route	1200
show ip sla application	1204
show ip sla configuration	1205

show ip sla enhanced-history collection-statistics	1208
show ip sla enhanced-history distribution-statistics	1212
show ip sla group schedule	1213
show ip sla history	1214
show ip sla reaction-configuration	1216
show ip sla reaction-trigger	1217
show ip sla responder	1218
show ip sla statistics	1220
show ip sla twamp connection detail	1226
show ip sla twamp connection requests	1227
show ip sla twamp session	1228
show ip sla twamp standards	1229
show ip ssh source-interface	1230
show ip ssh source-interface vrf all	1231
show ip static-route	1232
show ip tcp mss	1234
show ip telnet source-interface	1235
show ip telnet source-interface vrf all	1236
show ip tftp source-interface	1237
show ip tftp source-interface vrf all	1238
show ip traceroute source-interface	1239
show ip traceroute source-interface vrf all	1240
show ip traffic	1241
show ip udp relay	1248
show ip udp relay interface	1249
show ip udp relay object-group	1250
show ip verify source	1251
show ipv6 adjacency	1252
show ipv6 adjacency aggregate-prefix	1255
show ipv6 adjacency subnet-prefix	1256
show ipv6 amt tunnel	1257
show ipv6 bgp	1259
show ipv6 bgp	1260
show ipv6 bgp community	1261



show ipv6 bgp dampening	1262
show ipv6 bgp extcommunity	1263
show ipv6 bgp flap-statistics	1264
show ipv6 bgp neighbors	1265
show ipv6 bgp nexthop-database	1266
show ipv6 bgp nexthop	1267
show ipv6 bgp received-paths	1268
show ipv6 bgp regexp	1269
show ipv6 bgp summary	1270
show ipv6 client	1271
show ipv6 dhcp guard policy	1273
show ipv6 dhcp relay	1274
show ipv6 dhcp relay statistics	1275
show ipv6 fragments	1279
show ipv6 icmp	1280
show ipv6 icmp global traffic	1282
show ipv6 icmp interface	1285
show ipv6 icmp l2 statistics	1291
show ipv6 icmp nd local-proxy stats	1292
show ipv6 icmp off-list	1293
show ipv6 icmp vaddr	1294
show ipv6 icmp vpc-statistics	1298
show ipv6 interface	1301
show ipv6 lisp data-cache	1306
show ipv6 local policy	1307
show ipv6 mld groups	1308
show ipv6 mld local-groups	1310
show ipv6 mroute	1311
show ipv6 mtu	1314
show ipv6 nd ra dns search-list	1316
show ipv6 nd ra dns server	1317
show ipv6 nd rguard policy	1319
show ipv6 neighbor binding	1320
show ipv6 neighbor binding mac	1321

show ipv6 neighbor static	1322
show ipv6 pim df	1323
show ipv6 pim fabric info	1325
show ipv6 pim fabric legacy-vlans	1326
show ipv6 pim group-range	1327
show ipv6 pim interface	1328
show ipv6 pim neighbor	1332
show ipv6 pim oif-list	1333
show ipv6 pim policy statistics jp	1335
show ipv6 pim route	1336
show ipv6 pim rp-hash	1338
show ipv6 pim rp	1339
show ipv6 pim statistics	1341
show ipv6 pim vrf	1343
show ipv6 policy	1345
show ipv6 prefix-list	1346
show ipv6 process	1347
show ipv6 rguard statistics	1349
show ipv6 rip policy statistics redistribute	1350
show ipv6 route	1352
show ipv6 routers	1355
show ipv6 snooping capture-policy	1357
show ipv6 snooping counters vlan	1358
show ipv6 snooping events	1360
show ipv6 snooping features	1361
show ipv6 snooping messages	1362
show ipv6 snooping policies	1363
show ipv6 snooping policy	1364
show ipv6 snooping pss database	1366
show ipv6 static-route	1367
show ipv6 traffic	1369
show isis	1372
show isis adjacency	1376
show isis csnp	1379

show isis database	1381
show isis distribute-ls	1386
show isis dynamic-flooding	1390
show isis interface	1392
show isis ipv6 redistribute route	1398
show isis ipv6 route	1400
show isis ipv6 summary-address	1404
show isis lslib	1406
show isis mesh-group	1408
show isis redistribute route	1409
show isis route	1411
show isis rrm	1415
show isis segment-routing mapcache	1417
show isis segment-routing remote-srgb	1419
show isis segment-routing sids	1421
show isis spf-log	1422
show isis srm	1424
show isis ssn	1425
show isis statistics	1426
show isis summary-address	1427
show isis topology	1429
show isis traffic	1431
show itd	1433
show itd session device-group	1437
show itd statistics	1438
show itd vrf	1440

---

**CHAPTER 12**
**K Show Commands** 1441

show key chain	1442
show key chain mode decrypt	1443
show keystore	1444
show kim inconsistency	1445
show kubernetes containers	1446

## CHAPTER 13

**L Show Commands 1447**

show l2 mroute	1454
show l2 multicast ftag	1456
show l2 multicast trees	1457
show l2 route	1459
show l2fwder l2rib info	1461
show l2fwder statistics	1462
show l2rib clients	1463
show l2rib producers	1464
show l2rib registrations	1466
show l2route cmcast topology	1467
show l2route evpn ead all	1468
show l2route evpn ethernet-segment esi	1469
show l2route evpn fl all	1470
show l2route evpn fl evi	1471
show l2route evpn imet all	1472
show l2route evpn imet evi	1473
show l2route evpn mac-ip all	1474
show l2route evpn mac-ip evi	1476
show l2route evpn mac all	1478
show l2route evpn mac evi	1480
show l2route evpn path-list all	1482
show l2route evpn startup-route all	1483
show l2route evpn startup-route evi	1484
show l2route fl topology	1485
show l2route peerid	1486
show l2route summary	1487
show l2route topology	1488
show l2route topology	1490
show l2route topology	1492
show lacp counters	1494
show lacp interface	1495
show lacp issu-impact	1498

show lacp neighbor	1499
show lacp port-channel	1500
show lacp system-identifier	1501
show lend stats interface	1502
show ldap-search-map	1503
show ldap-server	1504
show ldap-server groups	1506
show ldap-server statistics	1508
show license	1510
show license brief	1511
show license default	1512
show license feature package mapping	1513
show license file	1514
show license host-id	1515
show license tech support	1516
show license usage	1517
show line	1518
show line console	1519
show line console connected	1520
show line console user-input-string	1521
show lisp ddt	1522
show lisp ddt queue	1523
show lisp ddt referral-cache	1524
show lisp dynamic-eid	1525
show lisp elp	1526
show lisp negative-prefix	1527
show lisp proxy-itr	1528
show lisp site	1529
show lisp site instance-id	1530
show lldp all	1531
show lldp dcBX interface	1532
show lldp entry	1534
show lldp interface	1536
show lldp neighbors	1538

show lldp neighbors detail	1540
show lldp neighbors system-detail	1542
show lldp portid-subtype	1543
show lldp timers	1544
show lldp tlv-select	1545
show lldp traffic	1546
show lldp traffic interface	1547
show lldp traffic interface all	1548
show locator-led status	1549
show logging	1550
show logging console	1551
show logging dropcount	1552
show logging info	1553
show logging ip access-list cache	1555
show logging ip access-list status	1557
show logging last	1558
show logging level	1559
show logging level	1560
show logging level aaa	1562
show logging level acllog	1563
show logging level aclmgr	1564
show logging level adbm	1565
show logging level adjmgr	1566
show logging level amt	1567
show logging level arp	1568
show logging level ascii-cfg	1569
show logging level assoc_mgr	1570
show logging level backup	1571
show logging level bfd	1572
show logging level bgp	1573
show logging level bloggerd	1574
show logging level bootvar	1575
show logging level callhome	1576
show logging level capability	1577

show logging level catena	1578
show logging level cdp	1579
show logging level cert_enroll	1580
show logging level cfs	1581
show logging level clis	1582
show logging level clk_mgr	1583
show logging level confcheck	1584
show logging level copp	1585
show logging level core	1586
show logging level cts	1587
show logging level dhcp_snoop	1588
show logging level diagnostic diagclient	1589
show logging level diagnostic diagmgr	1590
show logging level dot1x	1591
show logging level ecp	1592
show logging level eigrp	1593
show logging level eltm	1594
show logging level epp	1595
show logging level ethdstats	1596
show logging level ethpm	1597
show logging level evb	1598
show logging level evmc	1599
show logging level evmed	1600
show logging level evms	1601
show logging level fabric forwarding	1602
show logging level fabricpath isis	1603
show logging level fabricpath switch-id	1604
show logging level fcoe_mgr	1605
show logging level feature-mgr	1606
show logging level fs-daemon	1607
show logging level gpixm	1608
show logging level hardware-telemetry	1609
show logging level hsrp	1610
show logging level icam	1611

show logging level im	1612
show logging level imp	1613
show logging level interface-vlan	1614
show logging level ip igmp	1615
show logging level ip msdp	1616
show logging level ip sla responder	1617
show logging level ip sla sender	1618
show logging level ip sla twamp-server	1619
show logging level ipconf	1620
show logging level ipfib	1621
show logging level ipqos	1622
show logging level ipv6 icmp	1623
show logging level iscm	1624
show logging level iscm	1625
show logging level isis	1626
show logging level l2fm	1627
show logging level l3vm	1628
show logging level lacp	1629
show logging level ldap	1630
show logging level lim	1631
show logging level lisp	1632
show logging level lldp	1633
show logging level m2rib	1634
show logging level mfdm	1635
show logging level mfwd	1636
show logging level mmode	1637
show logging level module	1638
show logging level monitor	1639
show logging level mpls manager	1640
show logging level mpls switching	1641
show logging level mpls traffic-eng	1642
show logging level mvsh	1643
show logging level nat	1644
show logging level nbm	1645



show logging level netstack	1646
show logging level nfm	1647
show logging level nfm	1648
show logging level ngmvpn	1649
show logging level ngoam	1650
show logging level npv	1651
show logging level ntp	1652
show logging level nve	1653
show logging level nxsdk	1654
show logging level openflow	1655
show logging level ospf	1656
show logging level ospfv3	1657
show logging level otv	1658
show logging level pfstat	1659
show logging level pim	1660
show logging level pim	1661
show logging level pixm	1662
show logging level pktmgr	1663
show logging level platform	1664
show logging level plbm	1665
show logging level plcmgr	1666
show logging level pltfm_config	1667
show logging level plugin	1668
show logging level poap	1669
show logging level poed	1670
show logging level port-channel	1671
show logging level port-profile	1672
show logging level port-resources	1673
show logging level port-security	1674
show logging level port	1675
show logging level private-vlan	1676
show logging level ptp	1677
show logging level radius	1678
show logging level res_mgr	1679

show logging level rip	1680
show logging level routing ipv6 multicast	1681
show logging level routing multicast	1682
show logging level rpm	1683
show logging level rsvp	1684
show logging level sal	1685
show logging level san-port-channel	1686
show logging level san-port-channel	1687
show logging level scheduler	1688
show logging level security	1689
show logging level segment-routing	1690
show logging level session-mgr	1691
show logging level sflow	1692
show logging level smartc	1693
show logging level smm	1694
show logging level snmpd	1695
show logging level snmpmib_proc	1696
show logging level spanning-tree	1697
show logging level spm	1698
show logging level stripcl	1699
show logging level sysmgr	1700
show logging level tacacs	1701
show logging level telemetry	1702
show logging level template_manager	1703
show logging level track	1704
show logging level tunnel	1705
show logging level u2rib	1706
show logging level u6rib	1707
show logging level udld	1708
show logging level ufdm	1709
show logging level urib	1710
show logging level vdc_mgr	1711
show logging level virtual-service	1712
show logging level vlan_mgr	1713

show logging level vmm	1714
show logging level vmtracker	1715
show logging level vpc	1716
show logging level vrrp-cfg	1717
show logging level vrrp-eng	1718
show logging level vrrpv3	1719
show logging level vsan	1720
show logging level vshd	1721
show logging level vtp	1722
show logging level wwn	1723
show logging level xbar	1724
show logging logfile	1725
show logging logfile duration	1726
show logging logfile last-index	1727
show logging logfile start-seqn	1728
show logging logfile start-time	1729
show logging loopback	1730
show logging module	1731
show logging monitor	1732
show logging nvram	1733
show logging onboard	1734
show logging onboard	1735
show logging onboard kernel-trace	1738
show logging origin-id	1739
show logging pending-diff	1740
show logging pending	1741
show logging rate-limit	1742
show logging rfc-strict	1743
show logging server	1744
show logging session status	1745
show logging source-interface	1746
show logging status	1747
show logging timestamp	1748
show login on-failure log	1749

show login on-successful log 1750

---

CHAPTER 14

**M Show Commands 1751**

show mac-list 1753

show mac address-table 1754

show mac address-table 1756

show mac address-table aging-time 1758

show mac address-table count 1759

show mac address-table count es 1761

show mac address-table learning-mode 1762

show mac address-table loop-detect 1763

show mac address-table multicast 1764

show mac address-table notification mac-move 1765

show mac scalar 1766

show macsec mka 1767

show macsec mka session 1768

show macsec mka statistics 1771

show macsec policy 1776

show macsec secy statistics 1777

show maintenance maint-delay 1781

show maintenance on-reload reset-reasons 1782

show maintenance profile 1783

show maintenance snapshot-delay 1784

show maintenance timeout 1785

show module 1786

show module bandwidth-fairness 1789

show module uptime 1790

show monitor 1791

show mpls forwarding statistics 1792

show mpls interfaces 1794

show mpls interfaces detail 1795

show mpls interfaces statistics 1796

show mpls ip bindings 1797

show mpls ip bindings summary 1800

show mpls ip ttl	1801
show mpls label range	1802
show mpls load-sharing	1803
show mpls oam echo statistics	1804
show mpls static binding	1806
show mpls static binding	1808
show mpls static trace	1810
show mpls strip labels	1811
show mpls switching	1812
show mpls switching clients	1816
show mvpn bgp mdt	1818
show mvpn mdt encap	1819
show mvpn mdt route	1820

**CHAPTER 15****N Show Commands 1821**

show nbm defaults	1823
show nbm flow-policy	1825
show nbm flows	1827
show nbm flows static	1831
show nbm flows statistics	1833
show nbm flows summary	1835
show nbm host-policy all	1836
show nbm host-policy applied receiver	1838
show nbm host-policy applied sender	1840
show nbm interface bandwidth	1842
show ngoam interface statistics	1843
show ngoam loopback	1844
show ngoam pathtrace	1846
show ngoam probe	1850
show ngoam traceroute statistics	1852
show ngoam xconnect session	1854
show npv external-interface-usage	1856
show npv flogi-table	1857
show npv status	1858

show npv traffic-map	1860
show ntp access-groups	1861
show ntp authentication-keys	1862
show ntp authentication-status	1863
show ntp information	1864
show ntp logging-status	1865
show ntp peer-status	1866
show ntp peers	1867
show ntp rts-update	1868
show ntp session status	1869
show ntp source-interface	1870
show ntp source	1871
show ntp statistics	1872
show ntp status	1875
show ntp trusted-keys	1876
show nve adjacency mpls	1877
show nve bfd neighbors	1878
show nve core-links	1879
show nve ethernet-segment	1880
show nve evi	1882
show nve interface	1883
show nve mpls	1885
show nve multisite dci-links	1886
show nve multisite fabric-links	1887
show nve peers	1888
show nve peers interface counters	1890
show nve peers mpls	1891
show nve peers vni interface counters	1892
show nve replication-servers	1893
show nve vni	1894
show nve vni counters	1896
show nve vni ingress-replication	1897
show nve vrf	1898
show nve vxlan-params	1899

show nxapi-server logs 1900

show nxapi 1901

---

## CHAPTER 16

### O Show Commands 1903

show object-group 1904

show openflow hardware capabilities 1905

show openflow switch 1906

show openflow switch flows 1907

show ospfv3 1908

show ospfv3 border-routers 1913

show ospfv3 database 1915

show ospfv3 database database-summary 1918

show ospfv3 database detail 1920

show ospfv3 interface 1925

show ospfv3 interface brief 1928

show ospfv3 neighbors 1930

show ospfv3 neighbors detail 1932

show ospfv3 neighbors summary 1935

show ospfv3 request-list 1937

show ospfv3 retransmission-list 1939

show ospfv3 route 1941

show ospfv3 route summary 1943

show ospfv3 statistics 1945

show ospfv3 summary-address 1949

show ospfv3 traffic 1950

show ospfv3 virtual-links 1954

show ospfv3 virtual-links brief 1958

show otv 1959

---

## CHAPTER 17

### P Show Commands 1961

show param-list 1964

show password secure-mode 1965

show password strength-check 1966

show plb 1967

show plb analytics 1971

show plb vrf 1973

show pmap-int-br interface br 1974

show pmap-int 1975

show pnp lease 1976

show pnp posix\_pi configs 1977

show pnp posix\_pi tech-support 1978

show pnp profiles 1979

show pnp status 1980

show pnp summary 1981

show pnp version 1982

show policy-map 1983

show policy-map interface control-plane 1988

show policy-map system 1991

show policy-map type control-plane 1995

show policy-map type network-qos 1998

show port-channel capacity 2000

show port-channel compatibility-parameters 2001

show port-channel database 2002

show port-channel fast-convergence 2004

show port-channel load-balance 2005

show port-channel load-balance forwarding-path1 interface src-interface 2007

show port-channel load-balance hardware forwarding-path interface source 2009

show port-channel rbh-distribution 2011

show port-channel scale-fanout 2012

show port-channel summary 2013

show port-channel traffic 2014

show port-channel usage 2015

show port-license 2016

show port-profile 2017

show port-profile brief 2019

show port-profile expand-interface 2020

show port-profile sync-status 2021

show port-profile usage 2022



show port-security	2023
show port-security address	2024
show port-security address interface	2025
show port-security interface	2026
show port-security state	2027
show port naming	2028
show postcard-telemetry exporter	2029
show postcard-telemetry flow-profile	2030
show postcard-telemetry monitor	2031
show postcard-telemetry queue-profile	2032
show postcard-telemetry sessions	2033
show postcard-telemetry watchlist	2034
show power inline	2035
show power inline	2036
show power inline police	2037
show power inline priority	2038
show privilege	2039
show processes	2040
show processes cpu	2041
show processes cpu history	2042
show processes cpu history data	2043
show processes log	2044
show processes log details	2045
show processes log pid	2046
show processes log vdc-all	2047
show processes memory	2048
show processes memory physical	2049
show processes memory shared	2050
show processes vdc	2053
show processes vdc cpu	2054
show processes vdc log	2055
show processes vdc log details	2056
show processes vdc log pid	2057
show processes vdc memory	2058

show pss debug 2059  
show ptp brief 2060  
show ptp clock 2061  
show ptp clock foreign-masters record 2063  
show ptp corrections 2064  
show ptp counters interface 2065  
show ptp packet-trace 2066  
show ptp parent 2067  
show ptp port interface 2068  
show ptp time-property 2070

---

**CHAPTER 18****Q Show Commands 2071**

show qos dcbxp incompatibility interface 2072  
show qos dcbxp info 2074  
show qos dcbxp interface 2075  
show queuing 2077  
show queuing pfc-queue 2079  
show queuing pfc-queue snmp ifIndex 2081  
show queuing tabular 2082

---

**CHAPTER 19****R Show Commands 2085**

show radius-cfs 2089  
show radius-server 2090  
show radius-server 2092  
show radius-server directed-request 2093  
show radius-server groups 2094  
show radius-server sorted 2095  
show radius-server statistics 2096  
show radius status 2098  
show redundancy status 2099  
show regexp 2101  
show reload 2102  
show resource 2103  
show rmon 2104

show role	2106
show role feature-group	2108
show role feature	2109
show rollback log exec	2110
show rollback status	2111
show route-map	2112
show route-map pbr-statistics	2113
show router-guard	2114
show routing-context	2115
show routing	2116
show routing clients	2120
show routing hash	2122
show routing hidden-nh	2125
show routing ipv6	2126
show routing ipv6 clients	2129
show routing ipv6 hash	2133
show routing ipv6 hidden-nh	2135
show routing ipv6 memory estimate	2136
show routing ipv6 memory statistics	2138
show routing ipv6 multicast	2140
show routing ipv6 multicast clients	2143
show routing ipv6 multicast memory estimate	2146
show routing ipv6 nhlfe	2148
show routing ipv6 recursive-next-hop	2150
show routing memory estimate	2151
show routing memory statistics	2153
show routing multicast clients	2155
show routing multicast lisp encap	2159
show routing multicast mdt encapsulation	2160
show routing multicast memory estimate	2161
show routing nhlfe	2163
show routing recursive-next-hop	2165
show routing vxlan-hash peer-ip	2167
show routing vxlan-hash peer-ipv6	2168

show running-config	2169
show running-config aaa	2170
show running-config acllog	2171
show running-config aclmgr	2172
show running-config adjmgr	2173
show running-config all	2174
show running-config arp	2175
show running-config assoc	2176
show running-config backup	2177
show running-config bfd	2178
show running-config bgp	2179
show running-config bloggerd	2180
show running-config callhome	2181
show running-config catena	2182
show running-config cdp	2183
show running-config cert-enroll	2184
show running-config cfs	2185
show running-config clock_manager	2186
show running-config config-profile	2187
show running-config config-template	2188
show running-config controller	2189
show running-config copp	2190
show running-config dhcp	2191
show running-config diagnostic	2192
show running-config diff	2193
show running-config dot1x	2194
show running-config ecp	2195
show running-config eem	2196
show running-config eigrp	2197
show running-config eltm	2198
show running-config evb	2199
show running-config exclude	2200
show running-config expand-port-profile	2201
show running-config fabric forwarding	2202

show running-config fabric multicast	2203
show running-config fabricpath	2204
show running-config fabricpath domain default	2205
show running-config fabricpath switch-id	2206
show running-config fabricpath topology	2207
show running-config fcoe_mgr	2208
show running-config hardware-telemetry	2209
show running-config hsrp	2210
show running-config icam	2211
show running-config icmpv6	2212
show running-config igmp	2213
show running-config imp	2214
show running-config interface	2215
show running-config interface	2216
show running-config ip	2217
show running-config ipqos	2218
show running-config ipv6	2219
show running-config isis	2220
show running-config l3vm	2221
show running-config ldap	2222
show running-config license	2223
show running-config lisp	2224
show running-config lldp	2225
show running-config macsec	2226
show running-config mmode	2227
show running-config monitor	2228
show running-config mpls static	2229
show running-config mpls strip	2230
show running-config mpls traffic-eng	2231
show running-config msdp	2232
show running-config nat	2233
show running-config nbm	2234
show running-config ngoam	2235
show running-config ntp	2236

show running-config nv overlay	2237
show running-config nxsdk	2238
show running-config openflow	2239
show running-config ospf	2240
show running-config ospfv3	2241
show running-config otv-isis	2242
show running-config otv	2243
show running-config param-list	2244
show running-config pim	2245
show running-config pim6	2246
show running-config plb-services	2247
show running-config poe	2248
show running-config port-profile	2249
show running-config port-security	2250
show running-config ptp	2251
show running-config radius	2252
show running-config rip	2253
show running-config routing ip multicast	2254
show running-config routing ipv6 multicast	2255
show running-config rpm	2256
show running-config rsvp	2257
show running-config scheduler	2258
show running-config section	2259
show running-config security	2260
show running-config segment-routing	2261
show running-config services	2262
show running-config services	2263
show running-config sflow	2264
show running-config sla responder	2265
show running-config sla sender	2266
show running-config sla twamp-server	2267
show running-config smart-channel	2268
show running-config snmp	2269
show running-config spanning-tree	2270

show running-config srte	2271
show running-config switch	2272
show running-config tacacs	2273
show running-config telemetry	2274
show running-config track	2275
show running-config udd	2276
show running-config vdc-all	2277
show running-config vdc	2278
show running-config virtual-service	2279
show running-config vlan	2280
show running-config vln	2281
show running-config vln	2282
show running-config vmtracker	2283
show running-config vpc	2284
show running-config vrf	2285
show running-config vrf default	2286
show running-config vrrp	2287
show running-config vrrpv3	2288
show running-config vshd	2289
show running-config vtp	2290
show running-config wwnm	2291

**CHAPTER 20****S Show Commands 2293**

show san-port-channel compatibility-parameters	2299
show san-port-channel consistency	2300
show san-port-channel consistency detail	2301
show san-port-channel database	2303
show san-port-channel summary	2305
show san-port-channel usage	2306
show scheduler config	2307
show scheduler job	2309
show scheduler logfile	2310
show scheduler schedule	2311
show segment-routing	2312

show segment-routing clients	2313
show segment-routing ipv4 connected-prefix-sid-map	2314
show segment-routing mpls	2315
show segment-routing mpls clients	2316
show segment-routing mpls ipv4 connected-prefix-sid-map	2317
show sflow	2318
show sflow statistics	2319
show smart-channel	2320
show snapshots	2324
show snapshots compare	2325
show snapshots compare ipv4routes	2327
show snapshots compare ipv6routes	2328
show snapshots compare summary	2329
show snapshots dump	2330
show snapshots dump	2331
show snapshots sections	2332
show snmp	2333
show snmp community	2336
show snmp context	2337
show snmp engineID	2338
show snmp group	2339
show snmp host	2340
show snmp mib igmpCacheTable	2341
show snmp mib igmpInterfaceTable	2342
show snmp nms-statistics	2344
show snmp oid-statistics	2345
show snmp sessions	2346
show snmp source-interface	2347
show snmp trap	2348
show snmp user	2349
show sockets client	2350
show sockets connection	2358
show sockets local-port-range	2361
show sockets ns-port-kiosk	2362



show sockets statistics	2363
show sockets tcp keychain binding	2373
show spanning-tree	2374
show spanning-tree blockedports	2378
show spanning-tree bridge	2379
show spanning-tree inconsistentports	2381
show spanning-tree interface	2382
show spanning-tree interface	2385
show spanning-tree issu-impact	2386
show spanning-tree mst	2387
show spanning-tree mst configuration	2392
show spanning-tree mst configuration digest	2393
show spanning-tree mst interface	2394
show spanning-tree pathcost method	2397
show spanning-tree root	2398
show spanning-tree summary	2400
show spanning-tree summary totals	2403
show srte pce ipv4 peer	2405
show srte policy	2406
show srte policy fh	2408
show ssh key	2409
show ssh server	2410
show ssx details	2411
show ssx exporter	2412
show ssx monitor	2413
show ssx record	2414
show startup-config	2415
show startup-config aaa	2416
show startup-config acllog	2417
show startup-config aclmgr	2418
show startup-config adjmgr	2419
show startup-config arp	2420
show startup-config assoc	2421
show startup-config backup	2422

show startup-config bfd	2423
show startup-config bgp	2424
show startup-config bloggerd	2425
show startup-config callhome	2426
show startup-config catena	2427
show startup-config cdp	2428
show startup-config cert-enroll	2429
show startup-config cfs	2430
show startup-config config-profile	2431
show startup-config copp	2432
show startup-config dhcp	2433
show startup-config diagnostic	2434
show startup-config dot1x	2435
show startup-config ecp	2436
show startup-config eem	2437
show startup-config eigrp	2438
show startup-config eltm	2439
show startup-config evb	2440
show startup-config exclude	2441
show startup-config expand-port-profile	2442
show startup-config fabric forwarding	2443
show startup-config fabric multicast	2444
show startup-config fabricpath	2445
show startup-config fabricpath domain default	2446
show startup-config fabricpath switch-id	2447
show startup-config fabricpath topology	2448
show startup-config fcoe_mgr	2449
show startup-config glbp	2450
show startup-config hardware-telemetry	2451
show startup-config hsrp	2452
show startup-config icam	2453
show startup-config icmpv6	2454
show startup-config igmp	2455
show startup-config imp	2456

show startup-config interface	2457
show startup-config interface	2458
show startup-config ip	2459
show startup-config ipqos	2460
show startup-config ipv6	2461
show startup-config isis	2462
show startup-config l3vm	2463
show startup-config ldap	2464
show startup-config license	2465
show startup-config lisp	2466
show startup-config lldp	2467
show startup-config log	2468
show startup-config macsec	2469
show startup-config mmode	2470
show startup-config monitor	2471
show startup-config mpls static	2472
show startup-config mpls strip	2473
show startup-config mpls traffic-eng	2474
show startup-config msdp	2475
show startup-config nat	2476
show startup-config nbm	2477
show startup-config ngoam	2478
show startup-config ntp	2479
show startup-config nv overlay	2480
show startup-config nxsdk	2481
show startup-config openflow	2482
show startup-config ospf	2483
show startup-config ospfv3	2484
show startup-config otv-isis	2485
show startup-config otv	2486
show startup-config param-list	2487
show startup-config pim	2488
show startup-config pim6	2489
show startup-config plb-services	2490

show startup-config poe	2491
show startup-config port-profile	2492
show startup-config port-security	2493
show startup-config ptp	2494
show startup-config radius	2495
show startup-config rip	2496
show startup-config routing ip multicast	2497
show startup-config routing ipv6 multicast	2498
show startup-config rpm	2499
show startup-config rsvp	2500
show startup-config scheduler	2501
show startup-config security	2502
show startup-config segment-routing	2503
show startup-config services	2504
show startup-config sflow	2505
show startup-config sla responder	2506
show startup-config sla sender	2507
show startup-config sla twamp-server	2508
show startup-config smart-channel	2509
show startup-config snmp	2510
show startup-config srte	2511
show startup-config switch	2512
show startup-config tacacs	2513
show startup-config telemetry	2514
show startup-config track	2515
show startup-config udd	2516
show startup-config vdc-all	2517
show startup-config vdc	2518
show startup-config virtual-service	2519
show startup-config vlan	2520
show startup-config vlan	2521
show startup-config vmtracker	2522
show startup-config vpc	2523
show startup-config vrf	2524

show startup-config vrf default	2525
show startup-config vrrpv3	2526
show startup-config vshd	2527
show startup-config vtp	2528
show startup-config wwnm	2529
show summary	2530
show switch-profile	2531
show switch-profile	2532
show switch-profile buffer	2534
show switch-profile peer	2535
show switch-profile status	2536
show switch-scope controller	2538
show switching-mode	2539
show switching-mode fabric-speed	2540
show system acl	2541
show system auto-collect tech-support	2542
show system boottime	2543
show system config reload-pending	2544
show system cores	2545
show system default switchport	2546
show system error-id	2547
show system exception-info	2548
show system fast-reload stabilization-timer	2549
show system image-verification	2550
show system inband queuing statistics	2551
show system inband queuing status	2553
show system login	2554
show system login failures	2555
show system memory-thresholds	2556
show system mode	2557
show system poap	2558
show system pss shrink status	2559
show system redundancy ha status	2560
show system redundancy status	2561

show system reset-reason	2562
show system reset-reason	2563
show system reset-reason module	2564
show system resources	2565
show system resources all-modules	2566
show system routing mode	2568
show system security	2569
show system standby manual-boot	2570
show system switch-mode	2571
show system uptime	2572
show system verify bios flash	2573
show system vlan reserved	2574

**CHAPTER 21****T Show Commands 2575**

show table-map	2581
show tacacs-server	2582
show tacacs-server	2583
show tacacs-server directed-request	2584
show tacacs-server groups	2585
show tacacs-server sorted	2586
show tacacs-server statistics	2587
show tech-support	2589
show tech-support aaa	2590
show tech-support aclmgr	2591
show tech-support aclmgr compressed	2592
show tech-support aclqos	2593
show tech-support aclqos compressed	2594
show tech-support adjmgr	2595
show tech-support all	2596
show tech-support all binary	2597
show tech-support analytics	2598
show tech-support analytics	2599
show tech-support arp	2600
show tech-support ascii-cfg	2601

show tech-support assoc_mgr	2602
show tech-support backup	2603
show tech-support bfd	2604
show tech-support bgp	2605
show tech-support biosd	2606
show tech-support bloggerd-all	2607
show tech-support bloggerd	2608
show tech-support bootvar	2609
show tech-support brief	2610
show tech-support callhome	2611
show tech-support cdp	2612
show tech-support cert-enroll	2613
show tech-support cfs	2614
show tech-support cli	2615
show tech-support clis	2616
show tech-support clock_manager	2617
show tech-support commands	2618
show tech-support controller	2619
show tech-support copp	2620
show tech-support dcbx	2621
show tech-support details	2622
show tech-support dhclient	2623
show tech-support dhcp	2624
show tech-support dme	2625
show tech-support dot1x	2626
show tech-support ecp	2627
show tech-support eem	2628
show tech-support eigrp	2629
show tech-support eltm	2630
show tech-support ethpm	2631
show tech-support evb	2632
show tech-support fabric forwarding	2633
show tech-support fabric multicast	2634
show tech-support fabricpath isis	2635

show tech-support fabricpath topology	2636
show tech-support fast-reload	2637
show tech-support fc2	2638
show tech-support fcoe	2639
show tech-support fips	2640
show tech-support forwarding l2 multicast	2641
show tech-support forwarding l2 multicast vdc-all	2642
show tech-support forwarding l2 unicast	2643
show tech-support forwarding l3 multicast	2644
show tech-support forwarding l3 multicast detail	2645
show tech-support forwarding l3 multicast detail vdc-all	2646
show tech-support forwarding l3 multicast vdc-all	2647
show tech-support forwarding l3 unicast	2648
show tech-support forwarding l3 unicast detail	2649
show tech-support forwarding l3 unicast detail vdc-all	2650
show tech-support forwarding l3 unicast vdc-all	2651
show tech-support forwarding mpls	2652
show tech-support forwarding multicast	2653
show tech-support gold	2654
show tech-support gpixm	2655
show tech-support ha	2656
show tech-support ha module	2657
show tech-support ha_short	2658
show tech-support ha standby	2659
show tech-support hardware-telemetry	2660
show tech-support hsrp	2661
show tech-support hsrp brief	2662
show tech-support icam	2663
show tech-support icmpv6	2664
show tech-support im	2665
show tech-support imp	2666
show tech-support inband counters	2667
show tech-support include-time	2668
show tech-support install	2669



show tech-support interface-vlan	2670
show tech-support ip	2671
show tech-support ip igmp	2672
show tech-support ip igmp snooping	2673
show tech-support ip msdp	2674
show tech-support ip pim	2675
show tech-support ipqos	2676
show tech-support ipv6	2677
show tech-support ipv6 mld	2678
show tech-support ipv6 multicast	2679
show tech-support ipv6 pim	2680
show tech-support isis	2681
show tech-support issu	2682
show tech-support kstack	2683
show tech-support l2	2684
show tech-support l2fm	2685
show tech-support l2fm clients	2686
show tech-support l2fm detail	2687
show tech-support l2fm l2dbg	2688
show tech-support l2fm l2dbg	2689
show tech-support l2rib	2690
show tech-support l3vm	2691
show tech-support l3vpn	2692
show tech-support lacp	2693
show tech-support ldap	2694
show tech-support license	2695
show tech-support lim	2696
show tech-support lisp	2697
show tech-support lldp	2698
show tech-support logging	2699
show tech-support m2rib	2700
show tech-support macsec	2701
show tech-support macsec detail	2702
show tech-support mfwd	2703

show tech-support mmode	2704
show tech-support module	2705
show tech-support module all	2706
show tech-support monitor	2707
show tech-support monitor erspan	2708
show tech-support monitorc-all	2709
show tech-support mpls manager	2710
show tech-support mpls static	2711
show tech-support mpls strip	2712
show tech-support mpls switching	2713
show tech-support mpls traffic-eng	2714
show tech-support mpls fwd	2715
show tech-support multicast-vxlan-evpn	2716
show tech-support multicast	2717
show tech-support mvpn	2718
show tech-support nat	2719
show tech-support nbm	2720
show tech-support nbm group	2721
show tech-support netflow	2722
show tech-support netstack	2723
show tech-support netstack detail	2724
show tech-support ngoam	2725
show tech-support npacl	2726
show tech-support npv	2727
show tech-support ns	2728
show tech-support ntp	2729
show tech-support nve	2730
show tech-support nxapi	2731
show tech-support nx sdk	2732
show tech-support object-store	2733
show tech-support openflow	2734
show tech-support openflow platform	2735
show tech-support ospf	2736
show tech-support ospfv3	2737

show tech-support otv	2738
show tech-support page	2739
show tech-support patch	2740
show tech-support pbr	2741
show tech-support pfstat	2742
show tech-support pixm-all	2743
show tech-support pixm	2744
show tech-support pixmc-all	2745
show tech-support pktmgr	2746
show tech-support platform-sdk	2747
show tech-support plb-services	2748
show tech-support plcmgr	2749
show tech-support pltfm-config	2750
show tech-support pnp	2751
show tech-support poe	2752
show tech-support port-channel	2753
show tech-support port-client-all	2754
show tech-support port-profile	2755
show tech-support port-security	2756
show tech-support port	2757
show tech-support private-vlan	2758
show tech-support ptp	2759
show tech-support radius	2760
show tech-support rip	2761
show tech-support routing	2762
show tech-support routing ipv6	2763
show tech-support routing ipv6 multicast	2764
show tech-support routing multicast	2765
show tech-support rpm	2766
show tech-support sal	2767
show tech-support san-port-channel	2768
show tech-support san	2769
show tech-support satmgr	2770
show tech-support security	2771

show tech-support segment-routing	2772
show tech-support services	2773
show tech-support session-mgr	2774
show tech-support sflow	2775
show tech-support sksd	2776
show tech-support sla responder	2777
show tech-support sla sender	2778
show tech-support sla twamp-server	2779
show tech-support smartc	2780
show tech-support smm	2781
show tech-support snmp	2782
show tech-support sockets	2783
show tech-support spm	2784
show tech-support rte	2785
show tech-support statsclient	2786
show tech-support stp	2787
show tech-support sup-filesys	2788
show tech-support sysmgr	2789
show tech-support tacacs	2790
show tech-support telemetry	2791
show tech-support track	2792
show tech-support tunnel	2793
show tech-support udd	2794
show tech-support usd-all	2795
show tech-support vdc	2796
show tech-support virtual-service	2797
show tech-support vlan	2798
show tech-support vmtracker	2799
show tech-support vpc	2800
show tech-support vrrp	2801
show tech-support vrrp brief	2802
show tech-support vrrpv3	2803
show tech-support vsan	2804
show tech-support vshd	2805

show tech-support vtp	2806
show tech-support vvlan	2807
show tech-support vxlan	2808
show tech-support vxlan platform	2809
show tech-support xbar	2810
show tech-support xml	2811
show tech-support xos	2812
show telemetry control database	2813
show telemetry data collector brief	2819
show telemetry event collector stats	2820
show telemetry pipeline stats	2822
show telemetry transport	2824
show telemetry usability	2827
show telnet server	2828
show terminal	2829
show terminal output xml version	2830
show time-range	2831
show time-stamp running-config last-changed	2833
show trace callhome	2834
show track	2835
show track brief	2837
show troubleshoot l3 vrf	2839
show trunk protocol	2840
show ttag brief	2841

---

**CHAPTER 22**
**U Show Commands 2843**

show uddl	2844
show uddl global	2846
show uddl neighbors	2847
show user-account	2848
show username keypair	2849
show username passphrase timevalues	2850
show userpassphrase	2851
show userpassphrase	2852

show users 2853

---

**CHAPTER 23****V Show Commands 2855**

show vdc 2857

show vdc current-vdc 2859

show vdc fcoe-vlan-range 2860

show vdc resource 2861

show vdc resource 2862

show vdc resource template 2863

show version 2864

show version epld 2866

show version image 2867

show version module 2868

show virtual-service 2869

show virtual-service storage pool list 2872

show virtual-service tech-support 2873

show virtual-service utilization name 2874

show virtual-service version 2875

show vlan 2876

show vlan access-list 2878

show vlan access-map 2882

show vlan counters 2883

show vlan dot1Q tag native 2884

show vlan fcoe 2885

show vlan filter 2886

show vlan id 2887

show vlan id counters 2889

show vlan id vn-segment 2891

show vlan name 2892

show vlan private-vlan 2894

show vlan private-vlan type 2895

show vlan xbrief 2896

show vlan xsummary 2897

show vmtracker 2898

show vmtracker certificate	2900
show vmtracker fabric auto-config	2901
show vmtracker status	2902
show vpc	2903
show vpc	2906
show vpc consistency-parameters	2907
show vpc consistency-parameters vlans	2908
show vpc fabric-ports	2909
show vpc orphan-ports	2910
show vpc peer-keepalive	2911
show vpc role	2912
show vpc statistics peer-keepalive	2913
show vpc statistics vpc	2914
show vpc virtual-peerlink dest reachable	2915
show vpc virtual-peerlink vlan consistency	2916
show vrf	2917
show vrf	2918
show vrrp	2920
show vrrp bfd-sessions	2923
show vrrpv3	2924
show vrrs client	2928
show vrrs pathway	2929
show vrrs server	2930
show vrrs tag	2931
show vsan	2932
show vsan membership	2933
show vsan membership interface	2934
show vsan usage	2935
show vtp counters	2936
show vtp interface	2937
show vtp password	2938
show vtp status	2939

show wred-queue qos-group-map 2942

show wrr-queue qos-group-map 2943

show wrr unicast-bandwidth 2944

show wwn status 2945

show wwn switch 2946

show wwn test 2947

show wwn vsan-wwn 2949

---

CHAPTER 25

**X Show Commands 2951**

show xml server logging configuration 2952

show xml server status 2953

---

PART II

**XML Support 2955**

---

CHAPTER 26

**Commands with XML/JSON Support 2957**

XML Support for Show Commands 2958





## Preface

---

This preface includes the following sections:

- [Audience, on page lxxv](#)
- [Documentation Conventions, on page lxxv](#)
- [Documentation Feedback, on page lxxvi](#)
- [Communications, Services, and Additional Information, on page lxxvi](#)

## Audience

This publication is for network administrators who install, configure, and maintain Cisco Nexus switches.

## Documentation Conventions

Command descriptions use the following conventions:

Convention	Description
<b>bold</b>	Bold text indicates the commands and keywords that you enter literally as shown.
<i>Italic</i>	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x   y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x   y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.
[x {y   z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
variable	Indicates a variable for which you supply values, in context where italics cannot be used.

Convention	Description
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use the following conventions:

Convention	Description
<code>screen font</code>	Terminal sessions and information the switch displays are in screen font.
<b>boldface screen font</b>	Information you must enter is in boldface screen font.
<i>italic screen font</i>	Arguments for which you supply values are in italic screen font.
<>	Nonprinting characters, such as passwords, are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

## Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to [. We appreciate your feedback.](#)

## Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

### Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.



## Notice

---

- [Notice, on page 2](#)

# Notice



---

**Warning**

This document should be used only as a glossary reference for possible commands. The listing of a command in this document does not guarantee that the command is available or supported for your platform or application.

The command information in this reference document is auto-generated from the NX-OS source code. While we attempt to manually remove unsupported, deprecated, or internal-use commands, such commands may occasionally appear in this document. Also, with the large variety of hardware platform combinations using NX-OS software, some listed commands may not be applicable or recommended for a specific platform. Platform-based dependency information is not provided in this command reference.

We strongly encourage you to refer to the configuration guides for appropriate commands to configure and operate a feature. Command limitations, restrictions, and recommendations are documented only in the configuration guides. When in doubt, please consult your Cisco representative.

---



# Introduction

---

- [Introduction, on page 4](#)

# Introduction

This command reference guide describes the NX-OS command-line interface (CLI) commands available on Cisco Nexus 3000 Series switches for configuring and operating the switches. Commands that are for internal use only, such as debug and test commands, are not included in this guide.



---

**Note** Some Cisco Nexus 3000 Series switches now support two system modes: the N3K mode and the N9K mode. The N3K mode (the default mode) uses the same CLI commands as the previous Cisco Nexus 3000 Series NX-OS releases. The N9K mode enables the Cisco Nexus 3000 Series switches to use the Cisco Nexus 9000 Series switches CLI commands. This command reference guide includes only the N3K mode commands. Refer to the Cisco Nexus 9000 Series documentation for the Cisco Nexus 9000 Series CLI commands.

---



## PART I

# All Show Commands

- [A Show Commands, on page 7](#)
- [B Show Commands, on page 47](#)
- [C Show Commands, on page 197](#)
- [D Show Commands, on page 305](#)
- [E Show Commands, on page 333](#)
- [F Show Commands, on page 359](#)
- [G Show Commands, on page 547](#)
- [H Show Commands, on page 551](#)
- [I Show Commands, on page 615](#)
- [K Show Commands, on page 1441](#)
- [L Show Commands, on page 1447](#)
- [M Show Commands, on page 1751](#)
- [N Show Commands, on page 1821](#)
- [O Show Commands, on page 1903](#)
- [P Show Commands, on page 1961](#)
- [Q Show Commands, on page 2071](#)
- [R Show Commands, on page 2085](#)
- [S Show Commands, on page 2293](#)
- [T Show Commands, on page 2575](#)
- [U Show Commands, on page 2843](#)
- [V Show Commands, on page 2855](#)
- [W Show Commands, on page 2941](#)
- [X Show Commands, on page 2951](#)







## A Show Commands

---

- [show aaa accounting](#), on page 8
- [show aaa authentication](#), on page 9
- [show aaa authentication login](#), on page 10
- [show aaa authentication login ascii-authentication](#), on page 11
- [show aaa authentication login error-enable](#), on page 12
- [show aaa authentication login invalid-username-log](#), on page 13
- [show aaa authorization](#), on page 14
- [show aaa bypass-user](#), on page 15
- [show aaa client radius statistics](#), on page 16
- [show aaa groups](#), on page 17
- [show aaa local user blocked](#), on page 18
- [show aaa server radius statistics](#), on page 19
- [show aaa user default-role](#), on page 20
- [show access-list](#), on page 21
- [show access-list database](#), on page 24
- [show access-lists](#), on page 25
- [show access-lists](#), on page 27
- [show accounting log](#), on page 32
- [show accounting log all](#), on page 33
- [show accounting log last-index](#), on page 34
- [show accounting log nvram](#), on page 35
- [show accounting log nvram last-index](#), on page 36
- [show accounting log nvram start-seqnum](#), on page 37
- [show accounting log start-seqnum](#), on page 38
- [show acl status](#), on page 39
- [show amt process](#), on page 40
- [show amt vrf all](#), on page 42
- [show archive log config](#), on page 43
- [show arp access-lists](#), on page 44

# show aaa accounting

```
show aaa accounting [ __readonly__ [ TABLE_acctMethods <service> <methods> ] ]
```

## Syntax Description

show	Show running system information
aaa	Show aaa information
accounting	Show accounting configuration
<i>__readonly__</i>	(Optional)
TABLE_acctMethods	(Optional)
<i>service</i>	(Optional) service type
<i>methods</i>	(Optional) Accounting methods configured for the application

## Command Mode

- /exec

# show aaa authentication

show aaa authentication [ *\_\_readonly\_\_* [ *TABLE\_AuthenMethods* <service> <method> ] ]

## Syntax Description

<i>show</i>	Show running system information
<i>aaa</i>	Show aaa information
<i>authentication</i>	Show authentication configuration
<i>__readonly__</i>	(Optional)
<i>TABLE_AuthenMethods</i>	(Optional)
<i>service</i>	(Optional) Service for which authentication is needed
<i>method</i>	(Optional) Authentication method used for the service

## Command Mode

- /exec

## show aaa authentication login

```
show aaa authentication login { mschap | mschapv2 | chap } [ __readonly__ [ <mschap_status> ] [
<mschapv2_status> ] [ <chap_status> ] ]
```

### Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login error message configuration
mschap	Show authentication login MSCHAP enable configuration
mschapv2	Show authentication login MSCHAP V2 enable configuration
chap	Show authentication login CHAP enable configuration
__readonly__	(Optional)
<i>mschap_status</i>	(Optional) mschap enabled or disabled
<i>mschapv2_status</i>	(Optional) mschapv2 enabled or disabled
<i>chap_status</i>	(Optional) chap enabled or disabled

### Command Mode

- /exec

# show aaa authentication login ascii-authentication

```
show aaa authentication login ascii-authentication [ __readonly__ { <ascii_authen_status> } ]
```

## Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login message configuration
ascii-authentication	Show ascii-authentication configuration
<i>__readonly__</i>	(Optional)
<i>ascii_authen_status</i>	(Optional) ascii authentication status

## Command Mode

- /exec

## show aaa authentication login error-enable

show aaa authentication login error-enable [ \_\_readonly\_\_ [ <status> ] ]

### Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login error message configuration
error-enable	Show authentication login error message enable configuration
__readonly__	(Optional)
<i>status</i>	(Optional) login error-enable enabled or disabled

### Command Mode

- /exec

# show aaa authentication login invalid-username-log

```
show aaa authentication login invalid-username-log [ __readonly__ [ <status> ] ]
```

## Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login message configuration
invalid-username-log	Show invalid username log configuration
__readonly__	(Optional)
<i>status</i>	(Optional) login invalid-username-log enabled or disabled

## Command Mode

- /exec

# show aaa authorization

```
show aaa authorization [ all ] [ __readonly__ [ <pki_ssh_cert_author> <pki_ssh_pubkey_author> ] [
TABLE_cmd_methods <appl_subtype> <cmd_type> <methods> ] [ TABLE_app_methods <appl> <methods>
] ]
```

## Syntax Description

show	Show running system information
aaa	Show aaa information
authorization	Show authorization configuration
all	(Optional) Show all(include defaults configurations) authorization info
__readonly__	(Optional)
<i>pki_ssh_cert_author</i>	(Optional)
<i>pki_ssh_pubkey_author</i>	(Optional)
TABLE_cmd_methods	(Optional) table containing command authorization methods
<i>appl_subtype</i>	(Optional)
<i>cmd_type</i>	(Optional)
<i>methods</i>	(Optional)
TABLE_app_methods	(Optional) table containing application authorization methods
<i>appl</i>	(Optional)
<i>methods</i>	(Optional)

## Command Mode

- /exec



## show aaa bypass-user

```
show aaa bypass-user [ <s0> ] [ __readonly__ [ <num_bypass_users> ] [ TABLE_bypassUsers <username>
<account> <author> ] ]
```

### Syntax Description

show	Show running system information
aaa	Show aaa information
bypass-user	Show bypass user information
<i>s0</i>	(Optional) Enter the username
<i>__readonly__</i>	(Optional)
<i>num_bypass_users</i>	(Optional) Number of bypass users configured
TABLE_bypassUsers	(Optional)
<i>username</i>	(Optional) Username
<i>account</i>	(Optional) Accounting Bypass
<i>author</i>	(Optional) Authorization bypass

### Command Mode

- /exec

## show aaa client radius statistics

```
show aaa client radius statistics <host0> [ __readonly__ TABLE_allstat [ <auth_client> ] TABLE_allcoastat
[ <requests> ] [ <transactions> ] [ <retransmissions> ] [ <active_trans> ] [ <ack_responses> ] [ <nak_responses>
] [ <invalid_req> ] [ <errors> ] ]
```

### Syntax Description

show	Show running system information
aaa	Show aaa information
client	Show AAA client info
radius	show radius dynamic authorization client info
statistics	show radius dynamic authorization client statistics
<i>host0</i>	IPV4/IPV6 address or DNS name of RADIUS client
<i>__readonly__</i>	(Optional)
<i>TABLE_allstat</i>	(Optional)
<i>TABLE_allcoastat</i>	(Optional)
<i>auth_client</i>	(Optional) Authentication Client Port details
<i>requests</i>	(Optional) COA Request Sent count
<i>transactions</i>	(Optional) COA transactions count
<i>retransmissions</i>	(Optional) COA retransmission count
<i>active_trans</i>	(Optional) COA active transactions count
<i>ack_responses</i>	(Optional) COA acknowledgement responses count
<i>nak_responses</i>	(Optional) COA nak responses count
<i>invalid_req</i>	(Optional) Invalid requests count
<i>errors</i>	(Optional) COA Error count

### Command Mode

- /exec

# show aaa groups

```
show aaa groups [ __readonly__ { TABLE_groups <group> } ]
```

## Syntax Description

show	Show running system information
aaa	Show aaa information
groups	Show configured groups
__readonly__	(Optional)
TABLE_groups	(Optional) Table showing aaa groups
<i>group</i>	(Optional) Name of the group

## Command Mode

- /exec

# show aaa local user blocked

show aaa local user blocked [ \_\_readonly\_\_ { TABLE\_sessions <u\_name> <u\_state> } ]

## Syntax Description

show	Show running system information
aaa	Configure aaa functions
local	Local username
user	Local system user
blocked	Display Blocked users
__readonly__	(Optional)
TABLE_sessions	(Optional) aaa local users blocked table
<i>u_name</i>	(Optional) Name of the user
<i>u_state</i>	(Optional) State of the user

## Command Mode

- /exec

## show aaa server radius statistics

```
show aaa server radius statistics [ __readonly__ TABLE_allstat [ <auth_ser> ] [ <coa_sessions> ]
TABLE_alldot1xstat [ <request_sent> ] [ <resp_received> ] [ <resp_timeout> ] [ <errors> ] ]
```

### Syntax Description

show	Show running system information
aaa	Show aaa information
server	show Local AAA server info
radius	show local radius server info
statistics	show local radius server statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_allstat</i>	(Optional)
<i>TABLE_alldot1xstat</i>	(Optional)
<i>auth_ser</i>	(Optional) Authentication Server Port details
<i>coa_sessions</i>	(Optional) Active COA session numbers
<i>request_sent</i>	(Optional) DOT1X Request Sent Count
<i>resp_received</i>	(Optional) DOT1X Response received Count
<i>resp_timeout</i>	(Optional) DOT1X Response Timeout Value
<i>errors</i>	(Optional) DOT1X Error count

### Command Mode

- /exec

## show aaa user default-role

show aaa user default-role [ \_\_readonly\_\_ { default\_role\_status <udr\_status> } ]

### Syntax Description

show	Show running system information
aaa	Show aaa information
user	Remotely authenticated user
default-role	Default role assigned by aaa-admin for remote authentication
__readonly__	(Optional)
default_role_status	(Optional) user default role status
<i>udr_status</i>	(Optional) Status of user default role

### Command Mode

- /exec

## show access-list

```
show { system internal | hardware } access-list { summary | [ vdc <vdc_id> ] { [ interface <if_name> | vlan
<vlan_id> | inband table <table> ] [ { input | output } { config | { { entries | merge } [ detail ] } | statistics |
l4ops | redirect | sampler } ] } [ module <module> ] [ __readonly__ <type> <feature> <plcy_id> <src_ip>
<src_mask> <dst_ip> <dst_mask> <proto> <l4ops> <action> <mac> <cos> <vlan> <l2_proto> <ethertype>
[ TABLE_vdc <vdc-no> <vdc-type> <dir> <policy-type> <policy-id> <policy-name> ] [ TABLE_instance
<inst> [ TABLE_tcam_resource_usage <tcam-no> <lbl> <hw-lbl-id> [ <bank> ] [ TABLE_bank <bank-no>
[ TABLE_class <class-type> [ TABLE_policies <policy> ] <netflow-profile> <netflow-deny-profile> [
<tcam-entries> ] [ TABLE_tcam_entry <tcam-index> <tcam-rule> <tcam-stats> ] ] ] ] <l4-protocol-cam-entries>
<mac-etype-proto-cam-entries> <lous> <tcp-flags-table-entries> <adjacency-entries> ] }
```

### Syntax Description

show	Show running system information
system	System-related show commands
internal	Commands for internal use
hardware	Show hardware information
access-list	Access Control List
summary	summary
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc_id
interface	(Optional) interface name
<i>if_name</i>	(Optional) display access list for the interface
vlan	(Optional) vlan_id
<i>vlan_id</i>	(Optional) vlan_id
inband	(Optional) inband interface
table	(Optional) vrf table number
<i>table</i>	(Optional) vrf table number
input	(Optional) input/ingress policies
output	(Optional) output/egress policies
config	(Optional) parsed policy software database
entries	(Optional) tcam entries
statistics	(Optional) aggregate statistics

<i>l4ops</i>	(Optional) l4 operations information
<i>redirect</i>	(Optional) redirect resource information
<i>sampler</i>	(Optional) with sampler details
<i>merge</i>	(Optional) tcam entries merge information
<i>detail</i>	(Optional) detailed information
<i>module</i>	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
<i>type</i>	(Optional) policy type eg: ACL, QOS
<i>feature</i>	(Optional) feature type eg: RACL, VACL
<i>plcy_id</i>	(Optional) policy id
<i>src_ip</i>	(Optional) src ipv4 address
<i>src_mask</i>	(Optional) src mask
<i>dst_ip</i>	(Optional) dst ipv4 address
<i>dst_mask</i>	(Optional) dst mask
<i>proto</i>	(Optional) protocol eg: TCP, UDP ...
<i>l4ops</i>	(Optional) layer 4 operations
<i>action</i>	(Optional) action
<i>mac</i>	(Optional) mac address
<i>cos</i>	(Optional) acos value
<i>vlan</i>	(Optional) vlan id
<i>l2_proto</i>	(Optional) L2 protocol
<i>ethertype</i>	(Optional) ethertype
<i>TABLE_vdc</i>	(Optional) show for vdc
<i>vdc-no</i>	(Optional) vdc number
<i>vdc-type</i>	(Optional) VDC type-COPP etc
<i>dir</i>	(Optional) Policy Direction
<i>policy-type</i>	(Optional) Policy type
<i>policy-id</i>	(Optional) Policy id



<i>policy-name</i>	(Optional) Policy name
TABLE_instance	(Optional) show for an instance
<i>inst</i>	(Optional) instance number
TABLE_tcam_resource_usage	(Optional) TCAM resource usage
<i>tcam-no</i>	(Optional) tcam number
TABLE_bank	(Optional) table bank
<i>bank-no</i>	(Optional) bank number
<i>lbl</i>	(Optional) lbl name
<i>hw-lbl-id</i>	(Optional) hw lbl id
<i>bank</i>	(Optional) bank number
TABLE_class	(Optional) table class
<i>class-type</i>	(Optional) Class type
TABLE_policies	(Optional) policy table
<i>policy</i>	(Optional) Policy name
<i>netflow-profile</i>	(Optional) Netflow Profile
<i>netflow-deny-profile</i>	(Optional) Netflow Deny Profile
TABLE_tcam_entry	(Optional) table tcam entries
<i>tcam-index</i>	(Optional) Index of tcam entry
<i>tcam-rule</i>	(Optional) tcam rule
<i>tcam-stats</i>	(Optional) stats of tcam rule
<i>tcam-entries</i>	(Optional) No. of TCAM entries
<i>l4-protocol-cam-entries</i>	(Optional) L4 protocol cam entries
<i>mac-etype-proto-cam-entries</i>	(Optional) No. of mac etype/proto cam entries
<i>lous</i>	(Optional) No. of LOU's
<i>tcp-flags-table-entries</i>	(Optional) No. of CP flags table entries
<i>adjacency-entries</i>	(Optional) No. of adjacency entries

**Command Mode**

- /exec

## show access-list database

```
show { system internal | hardware } access-list [ vdc <vdc_id> ] database { interface | vlan | policy | process
} [ module <module> ] [ __readonly__ <if_idx> <vlan> <plcy_id> <process_info> ]
```

### Syntax Description

show	Show running system information
system	System-related show commands
internal	Commands for internal use
hardware	Show hardware information
access-list	Access Control List
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc_id
database	Show memory database
interface	display interfaces/vlans in a vdc with policies
policy	display policies in a vdc
vlan	display vlans in a vdc
process	display process database in a vdc
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
__readonly__	(Optional)
<i>if_idx</i>	(Optional) interface
<i>vlan</i>	(Optional) vlan
<i>plcy_id</i>	(Optional) policy id
<i>process_info</i>	(Optional) process information

### Command Mode

- /exec

## show access-lists

```
show <mpls_acl> access-lists [ <mpls_name> ] [ __readonly__ TABLE_mpls <mpls_name> [ <statistics> ]
[ TABLE_seqno <seqno> { <permitdeny> <mpls> [ <mpls_option> ] { <label1_any> | { <label1> [ mask
<label1_mask> ] } } [ <label2_any> | { <label2> [ mask <label2_mask> ] } ] [ <label3_any> | { <label3> [
mask <label3_mask> ] } ] [ <label4_any> | { <label4> [ mask <label4_mask> ] } ] <mplsaction> <mplsactionid>
} | <remark> ] ]
```

### Syntax Description

show	Show running system information
<i>mpls_acl</i>	mpls acl value
access-lists	List access lists
<i>mpls_name</i>	(Optional) List name
__readonly__	(Optional)
<i>mpls_name</i>	(Optional) Name of the MPLS ACL
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
<i>mplsaction</i>	(Optional) mpls ACL Action
<i>mplsactionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-PROTO: <1-65535>
<i>statistics</i>	(Optional) STATISTICS
mask	(Optional) mask
<i>label1</i>	(Optional) mpls label one
<i>label2</i>	(Optional) mpls label two
<i>label3</i>	(Optional) mpls label three
<i>label4</i>	(Optional) mpls label three
<i>label1_mask</i>	(Optional) mpls label one mask
<i>label2_mask</i>	(Optional) mpls label two mask
<i>label3_mask</i>	(Optional) mpls label three mask
<i>label4_mask</i>	(Optional) mpls label four mask
<i>label1_any</i>	(Optional) label one Any
<i>label2_any</i>	(Optional) label two Any

<i>label3_any</i>	(Optional) label three Any
<i>label4_any</i>	(Optional) label four Any
<i>mpls</i>	(Optional) mpls keyword
<i>mpls_option</i>	(Optional) mpls option
TABLE_mpls	(Optional)
TABLE_seqno	(Optional)
<i>remark</i>	(Optional) Remark String

**Command Mode**

- /exec

## show access-lists

```
show [ <ip_ipv6_mac> ] access-lists [ <name> ] [ capture session <capture_session> ] [ <expanded> |
<summary> | <private> | <brief> | <stats-detail> ] [ __readonly__ TABLE_ip_ipv6_mac <op_ip_ipv6_mac>
<show_summary> <acl_name> [ <statistics> ] [ <frag_opt_permit_deny> ] [ <global_capture_session> ] [
TABLE_seqno <seqno> { <permitdeny> [ <proto_str> | <proto> | <ip> | <ipv6> ] { <src_any> | <src_ip_prefix>
| <src_ip_addr> <src_ip_mask> | <src_ipv6_prefix> | <src_ipv6_addr> <src_ipv6_mask> | <mac_src>
<mac_src_wild> | <src_addrgrp> } { <src_port_op> [ <src_port1_str> ] { <src_port1_num> } [ <src_port2_str>
| <src_port2_num> ] | <src_portgrp> } { <dest_any> | <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> |
<dest_ipv6_prefix> | <dest_ipv6_addr> <dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp>
} [ <dest_port_op> [ <dest_port1_str> ] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] |
<dest_portgrp> ] [ { <icmp_type> [ <icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] |
<icmpv6_str> } ] [ <igmp_type> | <igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str>
] ] [ <dscp> | <dscp_str> ] [ [ <ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op>
<plen1> [ <plen2> ] ] [ <urg> ] [ <ack> ] [ <psh> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [
<http-method> | <http_opt_str> ] [ <tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange>
] [ <eth_proto> | <eth_proto_str> ] [ <vlan> ] [ <cos> ] [ <match_count> ] [ TABLE_match <module>
<module_match_count> ] [ [ <nve_vni> ] | <remark> [ <action> <actionid> ] ] ] [ ethertype <ethertypeid> |
vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [ [ <stats_enabled>
] [ <frag_option> ] [ <ign_rtable> ] { <num_ace> } { <conf_if_header> } [ <conf_if> ] { <active_if_header>
} [ <active_if> ] ] ] ]
```

### Syntax Description

show	Show running system information
<i>name</i>	(Optional) List name
<i>ip_ipv6_mac</i>	(Optional) IP/IPv6/MAC
capture	(Optional) capture
session	(Optional) session
<i>capture_session</i>	(Optional) session id
<i>op_ip_ipv6_mac</i>	(Optional) IP/IPv6/MAC
access-lists	List access lists
<i>show_summary</i>	(Optional)
<i>acl_name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
TABLE_ip_ipv6_mac	(Optional)
<i>frag_opt_permit_deny</i>	(Optional) frag_op_type
ethertype	(Optional) Configure match based on ethertype
vlan	(Optional) Configure match based on vlan

<i>ingress_intf</i>	(Optional) Configure match based on ingress interface
<i>vlan_priority</i>	(Optional) Configure match based on priority
<i>ethertypeid</i>	(Optional) Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
<i>proto</i>	(Optional) A protocol number
TABLE_seqno	(Optional)
<i>proto_str</i>	(Optional) Protocol name
<i>ip</i>	(Optional) IP
<i>ipv6</i>	(Optional) IPV6
<i>src_any</i>	(Optional) SRCAny
<i>dest_any</i>	(Optional) DESTAny
<i>src_ip_prefix</i>	(Optional) Source IP prefix
<i>src_ip_addr</i>	(Optional) Source IP address
<i>src_ip_mask</i>	(Optional) Source IP mask
<i>mac_src</i>	(Optional) Source MAC address
<i>mac_src_wild</i>	(Optional) Source MAC mask
<i>dest_ip_prefix</i>	(Optional) Destination IP prefix
<i>dest_ip_addr</i>	(Optional) Destination IP address
<i>dest_ip_mask</i>	(Optional) Destination IP mask
<i>mac_dest</i>	(Optional) Destination MAC address
<i>mac_dest_wild</i>	(Optional) Destination MAC mask
<i>src_port_op</i>	(Optional) Source Port operator
<i>dest_port_op</i>	(Optional) Destination Port operator
<i>src_port1_str</i>	(Optional) Source port name

<i>src_port1_num</i>	(Optional) Source port number
<i>src_port2_str</i>	(Optional) Source port name
<i>src_port2_num</i>	(Optional) Source port number
<i>dest_port1_str</i>	(Optional) Destination port name
<i>dest_port1_num</i>	(Optional) Destination port number
<i>dest_port2_str</i>	(Optional) Destination port name
<i>dest_port2_num</i>	(Optional) Destination port number
<i>icmp_type</i>	(Optional) ICMP type
<i>icmp_code</i>	(Optional) ICMP code
<i>icmp_str</i>	(Optional) ICMP message
<i>icmpv6_type</i>	(Optional) ICMP type
<i>icmpv6_code</i>	(Optional) ICMP code
<i>icmpv6_str</i>	(Optional) ICMP message
<i>igmp_type</i>	(Optional) IGMP type
<i>igmp_type_str</i>	(Optional) IGMP type String
<i>precedence</i>	(Optional) precedence
<i>precedence_str</i>	(Optional) precedence string
<i>tos</i>	(Optional) tos
<i>tos_str</i>	(Optional) tos string
<i>dscp</i>	(Optional) dscp
<i>dscp_str</i>	(Optional) dscp string
<i>udfs</i>	(Optional) udfs string
<i>ttl</i>	(Optional) ttl
<i>capture_session</i>	(Optional) capture session
<i>global_capture_session</i>	(Optional) capture session
<i>log</i>	(Optional) Log
<i>fragments</i>	(Optional) Fragments
<i>urg</i>	(Optional) URG
<i>ack</i>	(Optional) ACK

<i>psh</i>	(Optional) PSH
<i>rst</i>	(Optional) RST
<i>syn</i>	(Optional) SYN
<i>fin</i>	(Optional) FIN
<i>established</i>	(Optional) ESTABLISHED
<i>http-method</i>	(Optional) http-method
<i>http_opt_str</i>	(Optional) http_option string
<i>tcp-option-length</i>	(Optional) TCP Option size
<i>tcp-flags-mask</i>	(Optional) TCP Flags mask
<i>flow_label</i>	(Optional) IPv6 flow label
<i>timerange</i>	(Optional) Time-range
<i>eth_proto</i>	(Optional) MAC protocol number
<i>eth_proto_str</i>	(Optional) MAC protocol name
<i>vlan</i>	(Optional) VLAN number
<i>cos</i>	(Optional) CoS value
<i>match_count</i>	(Optional) Number of packets matching the ACL
TABLE_match	(Optional)
<i>module</i>	(Optional) Module name
<i>module_match_count</i>	(Optional) Number of packets matching the ACL per module
<i>nve_vni</i>	(Optional) nve vni
<i>remark</i>	(Optional) Remark String
<i>statistics</i>	(Optional) STATISTICS
<i>src_addrgrp</i>	(Optional) Source address group
<i>dest_addrgrp</i>	(Optional) Destination address group
<i>src_portgrp</i>	(Optional) Source port group
<i>dest_portgrp</i>	(Optional) Destination port group
<i>plen_op</i>	(Optional) Source Port operator
<i>plen1</i>	(Optional) Packet length minimum
<i>plen2</i>	(Optional) packet length maximum



<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>
<i>stats_enabled</i>	(Optional)
<i>frag_option</i>	(Optional)
<i>ign_rtable</i>	(Optional)
<i>num_ace</i>	(Optional) Total number of ACEs
<i>conf_if_header</i>	(Optional)
<i>conf_if</i>	(Optional) Configured Interfaces
<i>active_if_header</i>	(Optional)
<i>active_if</i>	(Optional) Active interfaces
<i>expanded</i>	(Optional) EXPANDED
<i>summary</i>	(Optional) SUMMARY
<i>private</i>	(Optional) PRIVATE
<i>brief</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>stats-detail</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

**Command Mode**

- /exec

## show accounting log

```
show accounting log [ { <i0> | start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time <EYYYY>
<EMonth> <EDate> <ETime> ] } ] [ __readonly__ [ TABLE_acctlog_time <accountlog_starttime> ] ]
```

### Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
<i>i0</i>	(Optional) Log Size(in bytes)
start-time	(Optional) Show messages from a given start-time
<i>SYYYY</i>	(Optional) Enter year in YYYY format
<i>SMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>SDate</i>	(Optional) Enter day of month in dd format
<i>STime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
end-time	(Optional) Show messages from a given end-time
<i>EYYYY</i>	(Optional) Enter year in YYYY format
<i>EMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>EDate</i>	(Optional) Enter day of month in dd format
<i>ETime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
__readonly__	(Optional)
TABLE_acctlog_time	(Optional)
<i>accountlog_starttime</i>	(Optional) accounting log starttime

### Command Mode

- /exec

# show accounting log all

```
show accounting log all [ __readonly__ [ TABLE_acctlog <accountlog_all> ] ]
```

## Syntax Description

show	Show running system information
accounting	Show accounting configuration
log	Show Accounting Log
all	Display accounting log including show commands (Use <terminal log-all> to enable show command accounting)
__readonly__	(Optional)
TABLE_acctlog	(Optional)
<i>accountlog_all</i>	(Optional) accounting log all

## Command Mode

- /exec

## show accounting log last-index

```
show accounting log last-index [ __readonly__ { <last_index> } ]
```

### Syntax Description

show	Show running system information
accounting	Show accounting configuration
log	Show Accounting Log
last-index	Show accounting log last index information
__readonly__	(Optional)
<i>last_index</i>	(Optional) accounting log last index

### Command Mode

- /exec

## show accounting log nvram

```
show accounting log nvram [ { <i0> | start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time
<EYYYY> <EMonth> <EDate> <ETime> ] } ] [ __readonly__ [ TABLE_acctnvramlog_time
<accountnvramlog_starttime> ] ]
```

### Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
nvram	present in nvram
<i>i0</i>	(Optional) Log Size(in bytes)
start-time	(Optional) Show messages from a given start-time
<i>SYYYY</i>	(Optional) Enter year in YYYY format
<i>SMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>SDate</i>	(Optional) Enter day of month in dd format
<i>STime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
end-time	(Optional) Show messages from a given end-time
<i>EYYYY</i>	(Optional) Enter year in YYYY format
<i>EMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>EDate</i>	(Optional) Enter day of month in dd format
<i>ETime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
__readonly__	(Optional)
TABLE_acctnvramlog_time	(Optional)
<i>accountnvramlog_starttime</i>	(Optional) accounting log nvram starttime

### Command Mode

- /exec

# show accounting log nvram last-index

show accounting log nvram last-index [ *\_\_readonly\_\_* { <last\_index> } ]

## Syntax Description

show	Show running system information
accounting	Show accounting configuration
log	Show Accounting Log
nvram	present in nvram
last-index	Show accounting log last index information
<i>__readonly__</i>	(Optional)
<i>last_index</i>	(Optional) accounting log last index

## Command Mode

- /exec

## show accounting log nvram start-seqnum

```
show accounting log nvram start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ] [ __readonly__ [
TABLE_acctnvramlog_seq <accountnvramlog_seq> ] ]
```

### Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
nvram	present in nvram
start-seqnum	Show messages starting from a given sequence number
end-seqnum	(Optional) Show messages ending with a given sequence number
<i>SSEQNUM</i>	Enter Starting Sequence Number
<i>ESEQNUM</i>	(Optional) Enter Starting Sequence Number
__readonly__	(Optional)
TABLE_acctnvramlog_seq	(Optional)
<i>accountnvramlog_seq</i>	(Optional) accounting log nvram seqnum

### Command Mode

- /exec

## show accounting log start-seqnum

```
show accounting log start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ] [ __readonly__ [
TABLE_acctlog_seq <accountlog_seq> ] ]
```

### Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
start-seqnum	Show messages starting from a given sequence number
end-seqnum	(Optional) Show messages ending with a given sequence number
<i>SSEQNUM</i>	Enter Starting Sequence Number
<i>ESEQNUM</i>	(Optional) Enter Starting Sequence Number
<i>__readonly__</i>	(Optional)
<i>TABLE_acctlog_seq</i>	(Optional)
<i>accountlog_seq</i>	(Optional) accounting log seqnum

### Command Mode

- /exec



## show acl status

```
show acl status [ __readonly__ [ <current_operation> [ <current_operation_stage> ] [ <current_operation_cli>
] <last_operation> [ <last_operation_status> ] [ <last_operation_cli> ] [ <current_acl> ] [ <current_ace> ] ]
]
```

### Syntax Description

show	Show running system information
acl	Show information about acl
status	Shows the status of last acl operation
<i>__readonly__</i>	(Optional)
<i>current_operation</i>	(Optional) Current operation
<i>current_operation_stage</i>	(Optional) Current operation stage
<i>current_operation_cli</i>	(Optional) Current operation CLI
<i>last_operation</i>	(Optional) Last operation
<i>last_operation_status</i>	(Optional) Last operation status
<i>last_operation_cli</i>	(Optional) Last operation CLI
<i>current_acl</i>	(Optional) Access-list being modified
<i>current_ace</i>	(Optional) ACE rule being modified

### Command Mode

- /exec

## show amt process

```
show amt process [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf> <pid> <uuid>
<q> <re4> <ge4> <re6> <ge6> <pi4> <ar4> <ag4> <ra4> <ga4> <dra4> <pi6> <ar6> <ag6> <ra6> <ga6>
<dra6> <qqic4> <tc4> <tl4> <rc4> <rl4> <jp4> <qqic6> <tc6> <tl6> <rc6> <rl6> <jp6> <grm4> <gjp4>
<gslp4> <gsl4> <grm6> <gjp6> <gslp6> <gsl6> ]
```

### Syntax Description

show	Show running system information
amt	AMT show commands
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
process	Display AMT process information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>pid</i>	(Optional)
<i>uuid</i>	(Optional)
<i>q</i>	(Optional)
<i>re4</i>	(Optional)
<i>ge4</i>	(Optional)
<i>re6</i>	(Optional)
<i>ge6</i>	(Optional)
<i>pi4</i>	(Optional)
<i>ar4</i>	(Optional)
<i>ag4</i>	(Optional)
<i>ra4</i>	(Optional)
<i>ga4</i>	(Optional)
<i>dra4</i>	(Optional)
<i>pi6</i>	(Optional)

<i>qqic4</i>	(Optional)
<i>tc4</i>	(Optional)
<i>tl4</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rl4</i>	(Optional)
<i>jp4</i>	(Optional)
<i>qqic6</i>	(Optional)
<i>tc6</i>	(Optional)
<i>tl6</i>	(Optional)
<i>rc6</i>	(Optional)
<i>rl6</i>	(Optional)
<i>jp6</i>	(Optional)
<i>grm4</i>	(Optional)
<i>gjp4</i>	(Optional)
<i>gslp4</i>	(Optional)
<i>gsl4</i>	(Optional)
<i>grm6</i>	(Optional)
<i>gjp6</i>	(Optional)
<i>gslp6</i>	(Optional)
<i>gsl6</i>	(Optional)

### Command Mode

- /exec

# show amt vrf all

show amt vrf all [ *\_\_readonly\_\_* *TABLE\_vrf* <vrf> <cid> <ip\_tid> <ipv6\_tid> ]

## Syntax Description

show	Show running system information
amt	AMT show commands
vrf	Display all VRFs AMT is configured in
all	Display all VRFs AMT is configured in
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>cid</i>	(Optional)
<i>ip_tid</i>	(Optional)
<i>ipv6_tid</i>	(Optional)

## Command Mode

- /exec

## show archive log config

```
show archive log config { all | [ user <username> ] [ first-index <first_index> [ last-index <last_index> ] ] }
[ __readonly__ [ TABLE_archivelog_time [ <archivelog_firstindex> ] ] ]
```

### Syntax Description

show	Show running system information
archive	Show archive configuration
log	Show Archive Log
config	Show Config Logger information
all	List all the records in the config log
user	(Optional) List records for specific user in the config log
<i>username</i>	(Optional) Username
first-index	(Optional) The first record number to display
last-index	(Optional) The last record number to display
<i>first_index</i>	(Optional) config log first index
<i>last_index</i>	(Optional) config log last index
__readonly__	(Optional)
TABLE_archivelog_time	(Optional)
<i>archivelog_firstindex</i>	(Optional) archive log startindex

### Command Mode

- /exec

## show arp access-lists

```
show arp access-lists [ <name> ] [ __readonly__ TABLE_arp <arp_name> [ TABLE_seqno <seqno> {
<permitdeny> <reqresp> ip { { <sender_ip_any> | { { <sender_host> <sender_ip> | { <sender_net_ip>
<sender_ip_mask> } } } } [ { <target_ip_any> | { { <target_host> <target_ip> | { <target_net_ip>
<target_ip_mask> } } } ] } mac { { <sender_mac_any> | { { <sender_mac_host> <sender_mac> | {
<sender_net_mac> <sender_mac_mask> } } } } [ { <target_mac_any> | { { <target_mac_host> <target_mac>
| { <target_net_mac> <target_mac_mask> } } } ] } [ <arp_log> ] | <remark> ] ] [ capture session
<session-id> ]
```

### Syntax Description

show	Show running system information
arp	ARP access-lists
access-lists	List access lists
<i>name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
<i>arp_name</i>	(Optional) Name of the ARP ACL
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
ip	(Optional) Any IP protocol
TABLE_arp	(Optional)
TABLE_seqno	(Optional)
<i>reqresp</i>	(Optional) ARP_Request
<i>sender_ip_any</i>	(Optional) Any
<i>sender_host</i>	(Optional) Host
<i>sender_ip</i>	(Optional) IP address <a.b.c.d>
<i>sender_net_ip</i>	(Optional) IP address <a.b.c.d>
<i>sender_ip_mask</i>	(Optional) IP mask <a.b.c.d>
<i>target_ip_any</i>	(Optional) Any
<i>target_host</i>	(Optional) Host
<i>target_ip</i>	(Optional) IP address <a.b.c.d>
<i>target_net_ip</i>	(Optional) IP address <a.b.c.d>
<i>target_ip_mask</i>	(Optional) IP mask <a.b.c.d>

<i>mac</i>	(Optional) MAC configuration commands
<i>sender_mac_any</i>	(Optional) Any
<i>sender_mac_host</i>	(Optional) Host
<i>sender_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>sender_net_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>sender_mac_mask</i>	(Optional) MAC mask EEEE.EEEE.EEEE
<i>target_mac_any</i>	(Optional) Any
<i>target_mac_host</i>	(Optional) Host
<i>target_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_net_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_mac_mask</i>	(Optional) MAC mask EEEE.EEEE.EEEE
<i>remark</i>	(Optional) Remark String
<i>arp_log</i>	(Optional) Log
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session

**Command Mode**

- /exec

show arp access-lists





## B Show Commands

---

- [show background](#), on page 49
- [show banner exec](#), on page 50
- [show banner motd](#), on page 51
- [show bash-shell](#), on page 52
- [show bfd clients](#), on page 53
- [show bfd neighbors](#), on page 54
- [show bgp](#), on page 58
- [show bgp](#), on page 64
- [show bgp](#), on page 67
- [show bgp](#), on page 75
- [show bgp](#), on page 81
- [show bgp](#), on page 84
- [show bgp bmp server](#), on page 86
- [show bgp community](#), on page 89
- [show bgp convergence](#), on page 95
- [show bgp dampening dampened](#), on page 97
- [show bgp dampening flap-statistics](#), on page 103
- [show bgp dampening parameters](#), on page 106
- [show bgp evi](#), on page 109
- [show bgp extcommunity](#), on page 111
- [show bgp l3vpn](#), on page 117
- [show bgp neighbors](#), on page 119
- [show bgp neighbors](#), on page 129
- [show bgp neighbors commands](#), on page 135
- [show bgp neighbors flap-statistics](#), on page 137
- [show bgp neighbors paths](#), on page 139
- [show bgp paths](#), on page 141
- [show bgp peer-template](#), on page 142
- [show bgp peer](#), on page 146
- [show bgp prefix-list](#), on page 148
- [show bgp private attr](#), on page 153
- [show bgp private debug history](#), on page 154
- [show bgp process](#), on page 155

- [show bgp received-paths](#), on page 160
- [show bgp regexp](#), on page 166
- [show bgp self-originated](#), on page 171
- [show bgp sessions](#), on page 176
- [show bgp statistics](#), on page 178
- [show bgp summary](#), on page 179
- [show bgp summary](#), on page 183
- [show boot](#), on page 188
- [show boot auto-copy](#), on page 189
- [show boot auto-copy list](#), on page 190
- [show boot current](#), on page 191
- [show boot mode](#), on page 192
- [show boot order](#), on page 193
- [show boot timings](#), on page 194
- [show boot variables](#), on page 195

# show background

```
show background [ __readonly__ [ { TABLE_jobs <pid> <user_name> <terminal> <start> <time> <script>
<args> } ] ]
```

## Syntax Description

<code>show</code>	Show running system information
<code>background</code>	show background processes (started with 'source background <file>' command)
<code>__readonly__</code>	(Optional)
<code>TABLE_jobs</code>	(Optional) All background jobs
<code>pid</code>	(Optional) Process ID of the job
<code>user_name</code>	(Optional) User name of the process
<code>terminal</code>	(Optional) Terminal where job is running
<code>start</code>	(Optional) Start time of job
<code>time</code>	(Optional) Time
<code>script</code>	(Optional) Script name
<code>args</code>	(Optional) Arguments passed to script

## Command Mode

- /exec

## show banner exec

```
show banner exec [ __readonly__ { banner_msg <b_msg> } ]
```

### Syntax Description

show	Show running system information
banner	Show current banner message
exec	Show current exec banner message
__readonly__	(Optional)
banner_msg	(Optional) The banner message
<i>b_msg</i>	(Optional) The banner message

### Command Mode

- /exec

# show banner motd

```
show banner motd [ __readonly__ { banner_msg <b_msg> } ]
```

## Syntax Description

show	Show running system information
banner	Show current banner message
motd	Show current motd banner message
__readonly__	(Optional)
banner_msg	(Optional) The banner message
<i>b_msg</i>	(Optional) The banner message

## Command Mode

- /exec

# show bash-shell

```
show bash-shell [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

show	Show running system information
bash-shell	Show bash shell status
<i>__readonly__</i>	(Optional)
<i>operation_status</i>	(Optional) Bash shell status
<i>o_status</i>	(Optional) operational status of bash shell

## Command Mode

- /exec

# show bfd clients

```
show bfd clients [ __readonly__ <header> [ { TABLE_bfdClients <client_name> <num_sess> } ] ]
```

## Syntax Description

show	Show running system information
bfd	BFD commands
clients	bfd client list
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) print header
TABLE_bfdClients	(Optional) BFD Client table
<i>client_name</i>	(Optional) client name
<i>num_sess</i>	(Optional) Number of sessions

## Command Mode

- /exec

## show bfd neighbors

```
show bfd { [ vrf { <vrf-name> | <vrf-known-name> | all } ] } { [ <ip_type> ] } neighbors { [ multihop ] | [
module <module> ] | [ interface <intf_id> ] | [ application <bfd_cli_client_names> ] | [ { src-ip <src_ip> |
src-ipv6 <src_ipv6> } ] | [ { dest-ip <dest_ip> | dest-ipv6 <dest_ipv6> } ] | [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } + [ details ] [ __readonly__ TABLE_bfdNeighbor <local_disc> [ <header> ] [
<sess_type> ] [ <vrf_name> ] [ <src_ip_addr> ] [ <src_ipv6_addr> ] [ <dest_ip_addr> ] [ <dest_ipv6_addr>
] [ <remote_disc> ] [ <local_state> ] [ <remote_state> ] [ <holddown> ] [ <cur_detect_mult> ] [ <intf> ] [
<echo> ] [ <echo_tx> ] [ <local_diag> ] [ <demand> ] [ <poll> ] [ <min_tx> ] [ <min_rx> ] [ <local_multi>
] [ <detect_timer> ] [ <tx_interval> ] [ <rx_count> ] [ <rx_avg> ] [ <rx_min> ] [ <rx_max> ] [ <last_rx> ] [
<tx_count> ] [ <tx_avg> ] [ <tx_min> ] [ <tx_max> ] [ <last_tx> ] [ <app> ] [ <up_time> ] [ <up_count> ] [
<down_count> ] [ <version> ] [ <diag> ] [ <state_bit> ] [ <demand_bit> ] [ <poll_bit> ] [ <final_bit> ] [
<multiplier> ] [ <length> ] [ <my_disc> ] [ <your_disc> ] [ <min_tx_interval> ] [ <req_min_rx> ] [
<min_echo_interval> ] [ <out_str> ] [ <host_lc> ] [ <down_reason> ] [ <no_host_reason> ] [ <parent> ] [
<per_link_str> ] [ <auth> ] [ <auth_bit> ] [ <print_details> ] ]
```

### Syntax Description

show	Show running system information
bfd	BFD commands
<i>ip_type</i>	(Optional) ipv4 or ipv6
neighbors	neighbors
multihop	(Optional) Display Multihop sessions only
module	(Optional) module
<i>module</i>	(Optional) module number
interface	(Optional) interface
<i>intf_id</i>	(Optional) show bfd sessions based on interface id
application	(Optional) application
<i>bfd_cli_client_names</i>	(Optional) __nil__ Clients need to register with bfd for this list
src-ip	(Optional) Source ip
src-ipv6	(Optional) Source ip
<i>src_ip</i>	(Optional) Source ip value
dest-ip	(Optional) Destination ip
dest-ipv6	(Optional) Destination ip
<i>dest_ip</i>	(Optional) Destination ip value
vrf	(Optional) Display per-VRF information



<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
details	(Optional) details
<i>__readonly__</i>	(Optional)
TABLE_bfdNeighbor	(Optional) BFD Neighbor table
<i>header</i>	(Optional) Header
<i>sess_type</i>	(Optional) Session type
<i>vrf_name</i>	(Optional) vrf name
<i>src_ip_addr</i>	(Optional) Source IPV4 address
<i>dest_ip_addr</i>	(Optional) Destination IPV4 address
<i>local_disc</i>	(Optional) Local Discriminator
<i>remote_disc</i>	(Optional) Remote Discriminator
<i>local_state</i>	(Optional) Local State
<i>remote_state</i>	(Optional) Remote State
<i>holddown</i>	(Optional) Hold Down Time
<i>cur_detect_mult</i>	(Optional) Current Detection Multiplier
<i>intf</i>	(Optional) Interface
<i>echo</i>	(Optional) Echo enabled
<i>echo_tx</i>	(Optional) Echo Tx Interval
<i>local_diag</i>	(Optional) Local Diag
<i>demand</i>	(Optional) Demand Mode
<i>poll</i>	(Optional) Poll Bit
<i>min_tx</i>	(Optional) Local Min Tx Interval
<i>min_rx</i>	(Optional) Local Min Rx Interval
<i>local_multi</i>	(Optional) Local Detection Multiplier
<i>detect_timer</i>	(Optional) Current Detection Timer
<i>tx_interval</i>	(Optional) Tx Interval
<i>rx_count</i>	(Optional) Tx Count

<i>rx_avg</i>	(Optional) Rx Interval Avg
<i>rx_min</i>	(Optional) Rx Interval Min
<i>rx_max</i>	(Optional) Rx Interval Max
<i>last_rx</i>	(Optional) Last Rx time
<i>tx_count</i>	(Optional) Tx Count
<i>tx_avg</i>	(Optional) Tx Interval Avg
<i>tx_min</i>	(Optional) Tx Interval Min
<i>tx_max</i>	(Optional) Tx Interval Max
<i>last_tx</i>	(Optional) Last Tx time
<i>app</i>	(Optional) App name
<i>up_time</i>	(Optional) Up time
<i>up_count</i>	(Optional) Up Count
<i>down_count</i>	(Optional) Down Count
<i>version</i>	(Optional) Version in Last Packet
<i>diag</i>	(Optional) diag in Last Packet
<i>state_bit</i>	(Optional) State Bit in Last Packet
<i>demand_bit</i>	(Optional) Demand Bit in Last Packet
<i>poll_bit</i>	(Optional) Poll Bit in Last Packet
<i>final_bit</i>	(Optional) Final Bit in Last Packet
<i>multiplier</i>	(Optional) Detection Multiplier in Last Packet
<i>length</i>	(Optional) Length in Last Packet
<i>my_disc</i>	(Optional) My Discriminator in Last Packet
<i>your_disc</i>	(Optional) Your Discriminator in Last Packet
<i>min_tx_interval</i>	(Optional) Min Tx Interval in Last Packet
<i>req_min_rx</i>	(Optional) Required Rx Interval in Last Packet
<i>min_echo_interval</i>	(Optional) Min Echo Interval in Last Packet
<i>out_str</i>	(Optional) No Host LC string
<i>parent</i>	(Optional) Parent Session
<i>per_link_str</i>	(Optional) Per Link string

<i>host_lc</i>	(Optional) Host LC
<i>down_reason</i>	(Optional) Session Down Reason
<i>no_host_reason</i>	(Optional) Not Hosted Reason
<i>auth</i>	(Optional) Authentication Mode
<i>auth_bit</i>	(Optional) Auth Bit in Last Packet
<i>print_details</i>	(Optional) print details

**Command Mode**

- /exec

## show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ipv4 { unicast |
multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv4 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | link-state | l2vpn vpls [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | l2vpn evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4
mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast } nexthop <ipnexthop>
| { ipv6 { unicast | multicast } | vpnv6 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] |
ipv6 labeled-unicast | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] } nexthop
<ipv6nexthop> } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel>
] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode>
<bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { { <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> } [ <importsource> [ <originalimportsource> ] ] [ <importdestscount> ] [
TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community
<community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist
<clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife>
<flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [
<psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsgb_len>
<psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmssi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop	Display routes matching the nexthop
<i>ipnexthop</i>	Nexthop address

ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
evpn	Display BGP information for L2VPN EVPN address family
mvpn	Display BGP information for MVPN address family
labeled-unicast	Display BGP information for labeled-unicast address family
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)

<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_ <i>advertisedto</i>	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_ <i>scheduledto</i>	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_ <i>path</i>	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)

<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)

<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)



<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec

## show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } policy statistics { { redistribute [ { { eigrp | isis | ospf | rip } <tag> } | static | direct | amt | lisp |
hmm | am ] } | { neighbor <neighbor-id> [ default-originate | { route-map | filter-list | prefix-list } { in | out }
] } | { dampening } | { network { <ip-addr> mask <ip-mask> | <ip-prefix> } } | { aggregate-address { <ip-addr>
<ip-mask> | <ip-prefix> } { suppress-map | advertise-map } } } | vpnv4 unicast policy statistics { neighbor
<neighbor-id> [ { route-map | filter-list | prefix-list } { in | out } ] } | ipv6 { unicast | multicast } policy statistics
{ { redistribute [ { { eigrp | isis | ospfv3 | rip } <tag> } | static | direct | amt | lisp | hmm | am ] } | { neighbor
{ <neighbor-id> | <ipv6-neighbor-id> } [ default-originate | { route-map | filter-list | prefix-list } { in | out }
] } | { dampening } | { network <ipv6-prefix> } | { aggregate-address <ipv6-prefix> { suppress-map |
advertise-map } } } } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
__readonly__ TABLE_vrf <vrf-name-polstats> [ <rpm-handle-count> ] [ { TABLE_rmap <name> <action>
<seqnum> [ { TABLE_cmd <command> <comparecount> <matchcount> } ] [ <totalacceptcount> ] [
<totalrejectcount> ] } ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
policy	Display policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	(Optional) ISO IS-IS
ospf	(Optional) Open Shortest Path First
ospfv3	(Optional) Open Shortest Path First v3
rip	(Optional) Routing Information Protocol
eigrp	(Optional) Enhanced Interior Gateway Protocol

static	(Optional) Static routes
direct	(Optional) Directly connected
amt	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
lisp	(Optional) LISP EID-prefixes in the non-default VRF
hmm	(Optional) HMM prefix
am	(Optional) AM routes (learned via ARP)
<i>tag</i>	(Optional) Source protocol tag
neighbor	Show neighbor specific counters
<i>neighbor-id</i>	Neighbor IPv4 address
route-map	(Optional) Neighbor route-map
prefix-list	(Optional) Neighbor prefix-list
filter-list	(Optional) Neighbor filter-list
out	(Optional) Outbound policy
in	(Optional) Inbound policy
default-originate	(Optional) Default-originate policy
dampening	Show dampening info
network	Configured IP prefix to advertise
mask	Configured mask of the IP prefix advertised
aggregate-address	Configured BGP aggregate prefixes
suppress-map	Statistics of suppress policy
advertise-map	Statistics of advertise policy
<i>ip-addr</i>	IP network advertised
<i>ip-mask</i>	Dotted 4-octet mask
<i>ip-prefix</i>	IP prefix in CIDR format
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-polstats</i>	(Optional)
<i>rpm-handle-count</i>	(Optional)
TABLE_rmap	(Optional)

<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seqnum</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>comparecount</i>	(Optional)
<i>matchcount</i>	(Optional)
<i>totalacceptcount</i>	(Optional)
<i>totalrejectcount</i>	(Optional)

**Command Mode**

- /exec

# show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ipv4 { unicast |
multicast } | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast
} [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] [ detail ] | <ip-prefix> [ longer-prefixes ] [ detail ] | labels |
exported | imported | detail ] | { ipv6 { unicast | multicast } | vpnv6 unicast [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast } [ <ipv6-prefix> [ longer-prefixes ] [ detail ] | labels |
exported | imported | detail ] | { ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] } [
<ip-addr> [ <ip-mask> ] | <ip-prefix> | labels | mdt-group <mdt-group> ] | { ipv4 | ipv6 } unicast [
injected-routes ] | link-state [ route-type <rt-type> | <ipv4-ls-rt> | <ipv6-ls-rt> ] | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ { <ip-addr> [ <ip-mask> ] | <ip-prefix> } ] | { ve-id
<ve-id> block-offset <ve-bs> } ] ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [
join <v4src-addr> <v4grp-addr> <src-asn> | rp <v4src-addr> <grp-v4prefix> <pe-addr> <rp-flags> <rp-priority>
<hashlen> | sa <grp-v4prefix> | sa-ad <v4src-addr> <v4grp-addr> | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail
] ] | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail ] | join [ detail ] | sa-ad [ detail ] | i-pmsi [ detail ] ] | ipv6 mvpn
[ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ join <v6src-addr> <v6grp-addr> <src-asn> | rp
<v6src-addr> <grp-v6prefix> <pe-addr> <rp-flags> <rp-priority> <hashlen> | sa <grp-v6prefix> | sa-ad
<v6src-addr> <v6grp-addr> | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail ] ] | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7
} [ detail ] | join [ detail ] | sa-ad [ detail ] | i-pmsi [ detail ] ] | l2vpn evpn [ route-type <rtype> [ etid <et> ] |
rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ route-type <rtype> [ etid <et> ] | <ipv4-evpn-rt> |
<ipv6-evpn-rt> | <mac-address> ] | vni-id <vni_id> [ route-type <rtype> ] | es <es-id> [ route-type <rtype> [
etid <et> ] ] | <ipv4-evpn-rt> | <ipv6-evpn-rt> | <mac-address> ] | all [ detail ] ] [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [
<mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> {
<ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath>
<origin> [ <metric> ] [ <localpref> ] } } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> ] [ <importsource>
[ <originalimportsource> ] ] [ <importdestscount> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate>
] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity
<extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime>
<flaps> <flaptime> <flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [
<con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx>
] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base>
<psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ]
[ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto
<advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ]
```

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context

<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	(Optional) Display one particular network from the BRIB in detail
<i>ip-mask</i>	(Optional) Mask for one particular prefix in the BRIB
<i>ip-prefix</i>	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
labels	(Optional) Display BGP labels for prefixes
exported	(Optional) Display only exported prefixes
imported	(Optional) Display only imported prefixes
injected-routes	(Optional) Display only injected prefixes
mdt-group	(Optional) Display prefixes with MDT group address
<i>mdt-group</i>	(Optional) MDT group address
rd	(Optional) Display information for a route distinguisher
ve-id	(Optional) VPLS VE ID
<i>ve-id</i>	(Optional) VPLS VE ID
route-type	(Optional) EVPN Route Type number
<i>rtype</i>	(Optional) EVPN route type number
1	(Optional) Inter-AS PMSI AD
2	(Optional) Intra-AS PMSI AD
3	(Optional) SPMSI AD
4	(Optional) LEAF AD
5	(Optional) Source-Active AD
6	(Optional) Shared C-Multicast
7	(Optional) Source C-Multicast
vni-id	(Optional) EVPN VNI ID number
<i>vni_id</i>	(Optional) EVPN VNI ID number
<i>rt-type</i>	(Optional) Link-State route-type
es	(Optional) Ethernet Segment
<i>es-id</i>	(Optional) ESID

<i>etid</i>	(Optional) Ethernet Tag-ID for L2VPN EVPN route
<i>et</i>	(Optional) Ethernet Tag-ID
<i>ipv4-evpn-rt</i>	(Optional) EVPN IPv4 address
<i>ipv4-ls-rt</i>	(Optional) Link-State NLRI with descriptor including IPv4 address
<i>mac-address</i>	(Optional) MAC address
<i>block-offset</i>	(Optional) VPLS VE Block offset
<i>ve-bs</i>	(Optional) VPLS VE Block offset
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
<i>ipv4</i>	Display BGP information for IPv4 address family
<i>vpn4</i>	Display BGP information for VPNv4 address family
<i>vpn6</i>	Display BGP information for VPNv6 address family
<i>ipv6</i>	Display BGP information for IPv6 address family
<i>unicast</i>	Display BGP information for unicast address family
<i>multicast</i>	Display BGP information for multicast address family
<i>mdt</i>	Display BGP information for multicast distribution tree
<i>link-state</i>	Display BGP information for link-state address family
<i>l2vpn</i>	Display BGP information for L2VPN address family
<i>vpls</i>	Display BGP information for L2VPN VPLS address family
<i>labeled-unicast</i>	Display BGP information for labeled-unicast address family
<i>mvpn</i>	Display BGP information for MVPN address family
<i>evpn</i>	Display BGP information for L2VPN EVPN address family
<i>all</i>	Display BGP information for all address families
<i>join</i>	(Optional) Display Multicast Join route
<i>detail</i>	(Optional) Display detailed path info for routes
<i>sa</i>	(Optional) Display Multicast Source Active AD route
<i>sa-ad</i>	(Optional) Display Multicast Source Active AD route
<i>i-pmsi</i>	(Optional) Display Multicast Intra-AS I-PMSI route
<i>rp</i>	(Optional) Display Multicast Group to RP route

<i>v4src-addr</i>	(Optional) Source IP Address
<i>src-asn</i>	(Optional) Source ASN
<i>v4grp-addr</i>	(Optional) Group IP Address
<i>grp-v4prefix</i>	(Optional) Group IP prefix
<i>pe-addr</i>	(Optional) PE IP Address
<i>rp-flags</i>	(Optional) Flags
<i>rp-priority</i>	(Optional) RP Priority
<i>hashlen</i>	(Optional) Hash mask length
<i>I</i>	(Optional) vrf
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)



TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)

<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_ <i>importdests</i>	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)

<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)

<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec

# show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } { route-map {
<rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | { community-list {
<commlist-name> | <test_pol_name> } | extcommunity-list { <extcommllist-name> | <test_pol_name> } } [
exact-match ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf<vrf-name-out> TABLE_afi<afi> TABLE_safi<safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel>
] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode>
<bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold_down> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | [ <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ] ] [ <importdstscount> ] [
TABLE_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregatoras> <atomicaggregate> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community
<community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist
<clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife>
<flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [
<psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsrgb_len>
<psid_origrsrgb_flag> <psid_origrsrgb_base> <psid_origrsrgb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> } } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
filter-list	Display routes matching the filter-list

<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
<i>commlist-name</i>	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>extcommmlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
exact-match	(Optional) Exact match of the communities
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)

TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)

<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)



<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)

<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

### Command Mode

- /exec

# show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { { ipv4 { unicast
| multicast } | vpnv4 unicast | ipv4 mdt | link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn } nexthop-database
[ <ipnexthop> ] } | { { ipv6 { unicast | multicast } | vpnv6 unicast | ipv6 mvpn } nexthop-database [
<ipv6nexthop> ] } | { all nexthop-database } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_nhvrft <nhvrf-name-out> TABLE_nhafi <nhafi>
TABLE_nhsafi <nhsafi> <af-name> <nhcriticaldelay> <nhnoncriticaldelay> [ { TABLE_nexthop {
<ipnexthop-out> | <ipv6nexthop-out> } <refcount> <igpmetric> <multipath> <igptype> <igppref> [ {
TABLE_attachedhops { <attachedhop> | <ipv6attachedhop> } <interface> [ { TABLE_labels <index> <label>
} ] } ] <attached> <local> <reachable> <labeled> <filtered> <suppressed> <resolvetime> { <ribroute> |
<ipv6ribroute> } } { <pendingupdate> | <pendingtime> } <nextadvertise> <rnhepoch> [ <pendingrnhepoch>
] } ] ]
```

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
nexthop-database	Display nexthop database
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
mdt	Display BGP information for multicast distribution tree
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families

<i>ipnexthop</i>	(Optional) Nexthop address
<i>__readonly__</i>	(Optional)
TABLE_ <i>nhvrf</i>	(Optional)
<i>nhvrf-name-out</i>	(Optional)
TABLE_ <i>nhafi</i>	(Optional)
<i>nhafi</i>	(Optional)
TABLE_ <i>nhsafi</i>	(Optional)
<i>nhsafi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>nhcriticaldelay</i>	(Optional)
<i>nhnoncriticaldelay</i>	(Optional)
TABLE_ <i>nexthop</i>	(Optional)
<i>ipnexthop-out</i>	(Optional)
<i>refcount</i>	(Optional)
<i>igpmetric</i>	(Optional)
<i>multipath</i>	(Optional)
<i>igptype</i>	(Optional)
<i>igppref</i>	(Optional)
TABLE_ <i>attachedhops</i>	(Optional)
<i>attachedhop</i>	(Optional)
<i>interface</i>	(Optional)
TABLE_ <i>labels</i>	(Optional)
<i>index</i>	(Optional)
<i>label</i>	(Optional)
<i>attached</i>	(Optional)
<i>local</i>	(Optional)
<i>reachable</i>	(Optional)
<i>labeled</i>	(Optional)
<i>filtered</i>	(Optional)

<i>suppressed</i>	(Optional)
<i>resolvetime</i>	(Optional)
<i>pendingupdate</i>	(Optional)
<i>pendingtime</i>	(Optional)
<i>ribroute</i>	(Optional)
<i>nextadvertise</i>	(Optional)
<i>rnheepoch</i>	(Optional)
<i>pendingrnheepoch</i>	(Optional)

**Command Mode**

- /exec

# show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] | ipv6 { unicast | multicast } flap-statistics
[ <ipv6-prefix> ] | all flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ] [ __readonly__ TABLE_vrf <vrf-name-out> [ TABLE_afi <afi> TABLE_safi <safi> <af-name> [
TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ <dampening> <historypaths> <dampenedpaths> ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer>
] [ <flapcount> ] [ <duration> ] [ <reuse> ] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ]
]
```

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
<i>ip-prefix</i>	(Optional) Display flap statistics for one prefix
<i>ip-addr</i>	(Optional) Display flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)

<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampening</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>status</i>	(Optional)
<i>best</i>	(Optional)
<i>pathtype</i>	(Optional)
<i>peer</i>	(Optional)
<i>flapcount</i>	(Optional)
<i>duration</i>	(Optional)
<i>reuse</i>	(Optional)
<i>penalty</i>	(Optional)
<i>suppresslimit</i>	(Optional)
<i>reuselimit</i>	(Optional)

**Command Mode**

- /exec





<i>refresh_interval</i>	(Optional) refresh delay for bmp server
<i>stats_interval</i>	(Optional) frequency of stat updates
<i>initiation</i>	(Optional) number of initiation messages
<i>termination</i>	(Optional) number of termination messages
<i>peer_up</i>	(Optional) number of peer up messages
<i>peer_down</i>	(Optional) number of peer down messages
<i>route_monitor</i>	(Optional) number of route monitor messages
<i>route_mirror</i>	(Optional) number of route mirror messages
<i>stats</i>	(Optional) number of stats messages
<i>messages_dropped</i>	(Optional) number of dropped messages
<i>monitored_peers</i>	(Optional) number of monitored peers for the bmp server
TABLE_peer	(Optional) monitored peer for the bmp server
<i>peer_addr</i>	(Optional) ip address of the peer
<i>refresh_interval</i>	(Optional) refresh delay for the peer
<i>peer_up</i>	(Optional) number of peer up messages for the peer
<i>peer_down</i>	(Optional) number of peer down messages for the peer
<i>route_monitor</i>	(Optional) number of route monitor messages for the peer
<i>route_mirror</i>	(Optional) number of route mirror messages for the peer
<i>stats</i>	(Optional) number of stats messages for the peer
<i>messages_dropped</i>	(Optional) number of dropped messages for the peer
<i>prefixes_denied</i>	(Optional) prefixes denied for the peer
<i>dup_pfx_advmnt</i>	(Optional) dup pfx advmnt for the peer
<i>pfx_dup_wdr_count</i>	(Optional) pfx dup wdr count for the peer
<i>cluster_list_loops</i>	(Optional) cluster list loops for the peer
<i>as_path_loops</i>	(Optional) as path loops for the peer
<i>as_confed_loops</i>	(Optional) as confed loops for the peer
<i>invalid_originator</i>	(Optional) invalid originator for the peer
<i>adj_rib_in</i>	(Optional) adj-rib-in for the peer
<i>loc-rib</i>	(Optional) loc-rib for the peer

**Command Mode**

- /exec



vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
labeled-unicast	Display BGP information for labeled-unicast address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
community	Display routes matching the BGP communities
<i>regexp-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)

<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)

<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)

<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)

TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec



## show bgp convergence

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] convergence [ detail
] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ <starttime>
<configdonetime> <juststarted> [ <initwaittime> ] [ <ldpconverged> ] [ <ulibconvergencesent> ] [ TABLE_vrf
<vrf-name-out> <bestpathtimeout> <configuredtimeout> <updatedelay> [ <firstpeerup> ] <timerunning> [
<timerexpires> ] [ TABLE_afi <afi> TABLE_safi <safi> <af-name> <total_configured_peers>
<total_capable_peers> <firstbestpathsignalled> [ <firstbestpathsignalledtime> ] <firstbestpathdone> [
<firstbestpathdonetime> [ <lastbestpathsignalledtime> <lastbestpathdonetime> ] ] [ <riblicconvergencesent>
] [ <importtimerrunning> ] [ <importtimerexpires> ] [ { TABLE_rcvdpeers [ <peer> ] [ <ipv6peer> ] [
<signalledtimepeer> ] } ] [ { TABLE_notrcvdpeers [ <notpeer> ] [ <notipv6peer> ] [ <nokeepalive> ] [
<notsignalledtime> ] } ] ] ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
convergence	Display information about convergence
detail	(Optional) Display detailed information about convergence
__readonly__	(Optional)
starttime	(Optional)
configdonetime	(Optional)
juststarted	(Optional)
initwaittime	(Optional)
ldpconverged	(Optional)
ulibconvergencesent	(Optional)
TABLE_vrf	(Optional)
total_configured_peers	(Optional)
total_capable_peers	(Optional)
vrf-name-out	(Optional)
bestpathtimeout	(Optional)
configuredtimeout	(Optional)

<i>updatedelay</i>	(Optional)
<i>firstpeerup</i>	(Optional)
<i>timerrunning</i>	(Optional)
<i>timerexpires</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>firstbestpathsignalled</i>	(Optional)
<i>firstbestpathsignalledtime</i>	(Optional)
<i>firstbestpathdone</i>	(Optional)
<i>firstbestpathdonetime</i>	(Optional)
<i>lastbestpathsignalledtime</i>	(Optional)
<i>lastbestpathdonetime</i>	(Optional)
<i>ribbibconvergencesent</i>	(Optional)
<i>importtimerrunning</i>	(Optional)
<i>importtimerexpires</i>	(Optional)
TABLE_rcvdpeers	(Optional)
<i>peer</i>	(Optional)
<i>signalledtimepeer</i>	(Optional)
TABLE_notrcvdpeers	(Optional)
<i>notpeer</i>	(Optional)
<i>nokeepalive</i>	(Optional)
<i>notsignalledtime</i>	(Optional)

**Command Mode**

- /exec



<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)

<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)

<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)

<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalf-life</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)

TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec





l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampening</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>status</i>	(Optional)
<i>best</i>	(Optional)
<i>pathtype</i>	(Optional)
<i>peer</i>	(Optional)
<i>flapcount</i>	(Optional)
<i>duration</i>	(Optional)

<i>reuse</i>	(Optional)
<i>penalty</i>	(Optional)
<i>suppresslimit</i>	(Optional)
<i>reuselimit</i>	(Optional)

**Command Mode**

- /exec

## show bgp dampening parameters

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } dampening
parameters [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> ] [
<rd_vrf> ] [ <rd_vniid> ] [ <rpmname> ] [ TABLE_rpm <rpmindex> <rpmdamphalflife> <rpm dampsuppress>
<rpm dampreuse> <rpm dampsuppressstime> <rpm dampmaxpenalty> ] [ <dampconfigured> <damp halflife>
<damp suppress> <damp reuse> <damp suppressstime> <damp maxpenalty> ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
parameters	Display dampening parameters
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family

l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_afi	(Optional)
afi	(Optional)
TABLE_safi	(Optional)
safi	(Optional)
af-name	(Optional)
TABLE_rd	(Optional)
rd_val	(Optional)
rd_vrf	(Optional) VRF RD
rd_vniid	(Optional)
TABLE_rpm	(Optional)
rpmname	(Optional)
rpmindex	(Optional)
rpmdamphalflife	(Optional)
rpm damp suppress	(Optional)
rpm damp reuse	(Optional)
rpm damp suppress time	(Optional)
rpm damp max penalty	(Optional)
damp configured	(Optional)
damp halflife	(Optional)
damp suppress	(Optional)
damp reuse	(Optional)

## show bgp dampening parameters

<i>dampsuppresstime</i>	(Optional)
<i>dampmaxpenalty</i>	(Optional)

**Command Mode**

- /exec

## show bgp evi

```
show bgp evi [ <evi-id> ] [ __readonly__ [ TABLE_ctx <eid> <rd> <numlocalprefixes> <numtotalprefixes>
<created> <lastoperup> <lastoperdown> <enabled> [ <associatedvrf> ] [ TABLE_activeexportrts <exportrt>
] [ TABLE_activeimportrts <importrt> ] [ TABLE_evpnactiveexportrts <evpnexportrt> ] [
TABLE_evpnactiveimportrts <evpnimportrt> ] [ TABLE_mvnpactiveexportrts <mvpnexportrt> ] [
TABLE_mvnpactiveimportrts <mvpnimportrt> ] [ TABLE_activeexportrtsv6 <exportrtv6> ] [
TABLE_activeimportrtsv6 <importrtv6> ] [ TABLE_evpnactiveexportrtsv6 <evpnexportrtv6> ] [
TABLE_evpnactiveimportrtsv6 <evpnimportrtv6> ] [ TABLE_mvnpactiveexportrtsv6 <mvpnexportrtv6> ]
[ TABLE_mvnpactiveimportrtsv6 <mvpnimportrtv6> ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
evi	Display information about EVI database
<i>evi-id</i>	(Optional) EVI Id
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>eid</i>	(Optional)
<i>rd</i>	(Optional)
<i>numlocalprefixes</i>	(Optional)
<i>numtotalprefixes</i>	(Optional)
<i>created</i>	(Optional)
<i>lastoperup</i>	(Optional)
<i>lastoperdown</i>	(Optional)
<i>enabled</i>	(Optional)
<i>associatedvrf</i>	(Optional)
<i>TABLE_activeexportrts</i>	(Optional)
<i>TABLE_activeimportrts</i>	(Optional)
<i>TABLE_evpnactiveexportrts</i>	(Optional)
<i>TABLE_evpnactiveimportrts</i>	(Optional)
<i>TABLE_mvnpactiveexportrts</i>	(Optional)
<i>TABLE_mvnpactiveimportrts</i>	(Optional)

TABLE_activeexportrtsv6	(Optional)
TABLE_activeimportrtsv6	(Optional)
TABLE_evpnactiveexportrtsv6	(Optional)
TABLE_evpnactiveimportrtsv6	(Optional)
TABLE_mvpnactiveexportrtsv6	(Optional)
TABLE_mvpnactiveimportrtsv6	(Optional)
<i>importrt</i>	(Optional)
<i>exportrt</i>	(Optional)
<i>evpnimportrt</i>	(Optional)
<i>evpnexportrt</i>	(Optional)
<i>mvpnimportrt</i>	(Optional)
<i>mvpnexportrt</i>	(Optional)
<i>importrtv6</i>	(Optional)
<i>exportrtv6</i>	(Optional)
<i>evpnimportrtv6</i>	(Optional)
<i>evpnexportrtv6</i>	(Optional)
<i>mvpnimportrtv6</i>	(Optional)
<i>mvpnexportrtv6</i>	(Optional)

**Command Mode**

- /exec



## show bgp extcommunity

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } extcommunity
{ <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ _readonly_ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ]
] [ <importdestscount> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalf-life> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family

ipv6	Display BGP information for IPv6 address family
vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family
labeled-unicast	Display BGP information for labeled-unicast address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
<i>regexp-str</i>	Regular expression to match the extcommunities
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)

<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)

<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)

<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)

<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec

## show bgp l3vpn

```
show bgp l3vpn [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
__readonly__ TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-rd> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [
<vrf-pending-rd> ] [ { TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [
<af-num-peers> ] [ <af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ]
[ <af-peer-aggregates> ] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] [ TABLE_export_rt
<export-rt> ] [ TABLE_import_rt <import-rt> ] [ TABLE_evpn_export_rt <evpn-export-rt> ] [
TABLE_evpn_import_rt <evpn-import-rt> ] [ TABLE_mvpn_export_rt <mvpn-export-rt> ] [
TABLE_mvpn_import_rt <mvpn-import-rt> ] [ <af-label-mode> ] [ <af-aggregate-label> } } ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
l3vpn	BGP l3vpn information
vrf	(Optional) Virtual Router Context
detail	(Optional) Detailed information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional) Read Only
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional) VRF name
<i>vrf-id</i>	(Optional) VRF ID
<i>vrf-state</i>	(Optional) VRF State
<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)
<i>af-id</i>	(Optional) AF ID
<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason

<i>af-num-peers</i>	(Optional) No. of peers
<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks
<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_export_rt	(Optional)
<i>export-rt</i>	(Optional) Export route-target
TABLE_import_rt	(Optional)
<i>import-rt</i>	(Optional) Import route-target
TABLE_evpn_export_rt	(Optional)
<i>evpn-export-rt</i>	(Optional) Export EVPN route-target
TABLE_evpn_import_rt	(Optional)
<i>evpn-import-rt</i>	(Optional) Import EVPN route-target
TABLE_mvpn_export_rt	(Optional)
<i>mvpn-export-rt</i>	(Optional) Export MVPN route-target
TABLE_mvpn_import_rt	(Optional)
<i>mvpn-import-rt</i>	(Optional) Import MVPN route-target
<i>af-label-mode</i>	(Optional) Label allocation mode
<i>af-aggregate-label</i>	(Optional) Aggregate Label

### Command Mode

- /exec





show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	(Optional) Display details for a prefix peering
ipv4	Display BGP information for IPv4 address family
vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
<i>__readonly__</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighbor</i>	(Optional)
<i>templatepeer</i>	(Optional)
<i>ipv4prefixneighbor</i>	(Optional)
<i>remoteas</i>	(Optional)
<i>localas</i>	(Optional)
<i>link</i>	(Optional)

<i>index</i>	(Optional)
TABLE_peer	(Optional)
<i>peer</i>	(Optional)
<i>maxprefixpeers</i>	(Optional)
<i>configpeer</i>	(Optional)
<i>inherit-template</i>	(Optional)
<i>inherit-session-template</i>	(Optional)
<i>prefix-parent</i>	(Optional)
<i>description</i>	(Optional)
<i>version</i>	(Optional)
<i>remote-id</i>	(Optional)
<i>state</i>	(Optional)
<i>up</i>	(Optional)
<i>elapsedtime</i>	(Optional)
<i>restarttime</i>	(Optional)
<i>peertype</i>	(Optional)
<i>sourceif</i>	(Optional)
<i>connectedif</i>	(Optional)
<i>connectedcheck</i>	(Optional)
<i>lowmemexempt</i>	(Optional)
<i>bfd</i>	(Optional)
<i>bfdmintxinterval</i>	(Optional)
<i>bfdminrxinterval</i>	(Optional)
<i>bfdmultiplier</i>	(Optional)
<i>bfdauthenticationtype</i>	(Optional)
<i>ttlsecurity</i>	(Optional)
<i>tllimit</i>	(Optional)
<i>dscp</i>	(Optional)
<i>localas-inactive</i>	(Optional)

<i>passiveonly</i>	(Optional)
<i>activepeers</i>	(Optional)
<i>closingpeers</i>	(Optional)
<i>maxconcurrentpeers</i>	(Optional)
<i>allocatedpeers</i>	(Optional)
<i>totalpeersaccepted</i>	(Optional)
<i>password</i>	(Optional)
<i>remove-privateas</i>	(Optional)
<i>gshut-activate</i>	(Optional)
<i>gshut-map</i>	(Optional)
<i>lastread</i>	(Optional)
<i>holdtime</i>	(Optional)
<i>keepalivetime</i>	(Optional)
<i>lastwrite</i>	(Optional)
<i>keepalive</i>	(Optional)
<i>msgrecvd</i>	(Optional)
<i>notificationsrcvd</i>	(Optional)
<i>recvbufbytesinq</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>notificationssent</i>	(Optional)
<i>sentbytesoutstanding</i>	(Optional)
<i>sentbytespacked</i>	(Optional)
<i>connsestablished</i>	(Optional)
<i>connsdropped</i>	(Optional)
<i>connattempts</i>	(Optional)
<i>peerresettime</i>	(Optional)
<i>peerresetreason</i>	(Optional)
<i>resettime</i>	(Optional)
<i>resetreason</i>	(Optional)

<i>configholdtime</i>	(Optional)
<i>configkeepalivetime</i>	(Optional)
<i>grstate</i>	(Optional)
<i>gexpiry</i>	(Optional)
<i>firstkeepalive</i>	(Optional)
<i>epe</i>	(Optional)
<i>epe-adj-sids</i>	(Optional)
<i>epe-peer-rpc-set</i>	(Optional)
<i>epe-peer-sid</i>	(Optional)
<i>epe-peer-set-name</i>	(Optional)
<i>epe-peer-set-rpc-set</i>	(Optional)
<i>epe-peer-set-sid</i>	(Optional)
TABLE_ <i>epe-adj</i>	(Optional)
<i>epe-adj-ip-local</i>	(Optional)
<i>epe-adj-ip-remote</i>	(Optional)
<i>epe-adj-ifindex</i>	(Optional)
<i>epe-adj-rpc-set</i>	(Optional)
<i>epe-adj-sid</i>	(Optional)
<i>openssent</i>	(Optional)
<i>opensrecvd</i>	(Optional)
<i>updatesent</i>	(Optional)
<i>updatesrecvd</i>	(Optional)
<i>keepalivesent</i>	(Optional)
<i>keepaliverecvd</i>	(Optional)
<i>rtrefreshsent</i>	(Optional)
<i>rtrefreshrecvd</i>	(Optional)
<i>capabilitiesent</i>	(Optional)
<i>capabilitiesrecvd</i>	(Optional)
<i>bytessent</i>	(Optional)

<i>bytesrcvd</i>	(Optional)
<i>threadid</i>	(Optional)
<i>fd</i>	(Optional)
<i>passivethreadid</i>	(Optional)
<i>passivefd</i>	(Optional)
<i>localaddr</i>	(Optional)
<i>localport</i>	(Optional)
<i>remoteaddr</i>	(Optional)
<i>remoteport</i>	(Optional)
<i>capsnegotiated</i>	(Optional)
<i>capmpadvertised</i>	(Optional)
<i>capgrdynamicadvertised</i>	(Optional)
<i>capaddpathsadvertised</i>	(Optional)
<i>caprefreshadvertised</i>	(Optional)
<i>capmprecvd</i>	(Optional)
<i>capgrdynamicrcvd</i>	(Optional)
<i>capaddpathsrcvd</i>	(Optional)
<i>caprefreshrcvd</i>	(Optional)
<i>capolddynamicadvertised</i>	(Optional)
<i>capolddynamicrcvd</i>	(Optional)
<i>caprradvertised</i>	(Optional)
<i>caprrrcvd</i>	(Optional)
<i>capoldrradvertised</i>	(Optional)
<i>capoldrrrcvd</i>	(Optional)
<i>capas4advertised</i>	(Optional)
<i>capas4rcvd</i>	(Optional)
TABLE_af	(Optional)
<i>af-afi</i>	(Optional)
TABLE_saf	(Optional)

<i>af-safi</i>	(Optional)
<i>af-advertised</i>	(Optional)
<i>af-recvd</i>	(Optional)
<i>af-name</i>	(Optional)
<i>capgradvertised</i>	(Optional)
<i>capgrrecvd</i>	(Optional)
TABLE_graf	(Optional)
<i>gr-afi</i>	(Optional)
TABLE_grsaf	(Optional)
<i>gr-safi</i>	(Optional)
<i>gr-af-name</i>	(Optional)
<i>gr-adv</i>	(Optional)
<i>gr-recv</i>	(Optional)
<i>gr-fwd</i>	(Optional)
<i>grrestarttime</i>	(Optional)
<i>grstaletime</i>	(Optional)
<i>grrecvdrestarttime</i>	(Optional)
TABLE_addpathscapaf	(Optional)
<i>addpathscap-afi</i>	(Optional)
TABLE_addpathscapsaf	(Optional)
<i>addpathscap-safi</i>	(Optional)
<i>addpathscap-af-name</i>	(Optional)
<i>addpathssendcap-adv</i>	(Optional)
<i>addpathsrecvcap-adv</i>	(Optional)
<i>addpathssendcap-recv</i>	(Optional)
<i>addpathsrecvcap-recv</i>	(Optional)
<i>capextendednhadvertised</i>	(Optional)
<i>capextendednhrecvd</i>	(Optional)
TABLE_capextendednhaf	(Optional)

<i>capextendednh-afi</i>	(Optional)
TABLE_capextendednhsaf	(Optional)
<i>capextendednh-safi</i>	(Optional)
<i>capextendednh-af-name</i>	(Optional)
TABLE_peraf	(Optional)
<i>per-afi</i>	(Optional)
TABLE_persaf	(Optional)
<i>per-safi</i>	(Optional)
<i>per-af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>neighbortableversion</i>	(Optional)
<i>pfxrecvd</i>	(Optional)
<i>pathsrecvd</i>	(Optional)
<i>pfxbytes</i>	(Optional)
<i>pfxsent</i>	(Optional)
<i>pathsstent</i>	(Optional)
<i>conditionmap</i>	(Optional)
<i>advertisemap</i>	(Optional)
<i>advertisemapstatus</i>	(Optional)
<i>insoftreconfigallowed</i>	(Optional)
<i>insoftreconfigallowedalways</i>	(Optional)
<i>sendcommunity</i>	(Optional)
<i>sendextcommunity</i>	(Optional)
<i>maxpfx</i>	(Optional)
<i>maxpfx_threshold</i>	(Optional)
<i>localnexthop</i>	(Optional)
TABLE_inpolicy	(Optional)
<i>inpolicynr</i>	(Optional)
<i>inpolicytype</i>	(Optional)



<i>inpolicyname</i>	(Optional)
<i>inpolicyhandle</i>	(Optional)
TABLE_outpolicy	(Optional)
<i>outpolicynr</i>	(Optional)
<i>outpolicytype</i>	(Optional)
<i>outpolicyname</i>	(Optional)
<i>outpolicyhandle</i>	(Optional)
<i>rrconfigured</i>	(Optional)
<i>defaultoriginate</i>	(Optional)
<i>defaultoriginatemap</i>	(Optional)
<i>defaultsent</i>	(Optional)
<i>grpathsaved</i>	(Optional)
<i>firsteorrecvd</i>	(Optional)
<i>firsteortime</i>	(Optional)
<i>pathsflushed</i>	(Optional)
<i>lasteorrecvtime</i>	(Optional)
<i>lasteorsenttime</i>	(Optional)
<i>firstconvgttime</i>	(Optional)
<i>pxsentfirsteor</i>	(Optional)
<i>unsuppress-map</i>	(Optional)
<i>thirdpartynexthop</i>	(Optional)
<i>soo</i>	(Optional)
<i>weight</i>	(Optional)
<i>allowasin</i>	(Optional)
<i>asoverride</i>	(Optional)
<i>peerascheckdisabled</i>	(Optional)
<i>vplssignalingprotocol</i>	(Optional)
TABLE_policy_template	(Optional)
<i>preference</i>	(Optional)

<i>inherit-policy-template</i>	(Optional)
--------------------------------	------------

**Command Mode**

- /exec

## show bgp neighbors

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] } { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv4 labeled-unicast | ipv4
labeled-unicast | l2vpn evpn } neighbors { <neighbor-id> | <ipv6-neighbor-id> } { routes [ advertised | received
| dampened ] | advertised-routes | received-routes } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsourc> [ <originalimportsourc> ]
] [ <importdestscout> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
labeled-unicast	Display BGP information for labeled-unicast address family
ipv6	Display BGP information for IPv6 address family

unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
routes	Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
advertised-routes	Display all the routes advertised to this peer
received-routes	Display all the routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_afi	(Optional)
afi	(Optional)
TABLE_safi	(Optional)
safi	(Optional)
af-name	(Optional)
table-version	(Optional)
router-id	(Optional)
TABLE_rd	(Optional)
rd_val	(Optional)
rd_vrf	(Optional)
rd_vniid	(Optional)
TABLE_prefix	(Optional)
ipprefix	(Optional)
nonipprefix	(Optional)
totalpaths	(Optional)

<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)

<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)

<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)

<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origrsrb_len</i>	(Optional)
<i>psid_origrsrb_flag</i>	(Optional)
<i>psid_origrsrb_base</i>	(Optional)
<i>psid_origrsrb_end</i>	(Optional)

**Command Mode**

- /exec



## show bgp neighbors commands

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | l2vpn evpn } neighbors {
<neighbor-id> | <ipv6-neighbor-id> } commands [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ [ { TABLE_sesscmd <sessioncmd> <sessioncmdstatus>
[ <sessioncmdtemplate> ] } ] [ TABLE_af <af-afi> TABLE_saf <af-safi> <af-name> [ { TABLE_polcmd
<polycycmd> <polycycmdstatus> [ <polycycmdtemplate> ] } ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
neighbors	Display all configured BGP neighbors
commands	Display details on commands
<i>__readonly__</i>	(Optional)
TABLE_sesscmd	(Optional)
<i>sessioncmd</i>	(Optional)
<i>sessioncmdstatus</i>	(Optional)
<i>sessioncmdtemplate</i>	(Optional)

TABLE_af	(Optional)
<i>af-afi</i>	(Optional)
TABLE_saf	(Optional)
<i>af-safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_polcmd	(Optional)
<i>polycmd</i>	(Optional)
<i>polycmdstatus</i>	(Optional)
<i>polycmdtemplate</i>	(Optional)

**Command Mode**

- /exec

## show bgp neighbors flap-statistics

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } neighbors { <neighbor-id> | <ipv6-neighbor-id> } flap-statistics
[ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf
<vrf-name-out> [ TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ <dampening> <historypaths> <dampenedpaths> ] [ TABLE_prefix { <ipprefix> | <ipv6prefix>
| <nonipprefix> } ] [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer> ] [ <flapcount> ] [ <duration> ] [ <reuse>
] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
flap-statistics	Display flap statistics for routes received from this peer
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)

<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampening</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>status</i>	(Optional)
<i>best</i>	(Optional)
<i>pathtype</i>	(Optional)
<i>peer</i>	(Optional)
<i>flapcount</i>	(Optional)
<i>duration</i>	(Optional)
<i>reuse</i>	(Optional)
<i>penalty</i>	(Optional)
<i>suppresslimit</i>	(Optional)
<i>reuselimit</i>	(Optional)

**Command Mode**

- /exec

## show bgp neighbors paths

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv6 labeled-unicast | ipv4
labeled-unicast | link-state | l2vpn evpn } neighbors { <neighbor-id> | <ipv6-neighbor-id> } paths [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_id <id> <hashvalue> <refcount>
<metric> <aspath> ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
all	Display BGP information for all address families
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
paths	Display AS paths learned from this peer
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)

TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_id	(Optional)
<i>id</i>	(Optional)
<i>hashvalue</i>	(Optional)
<i>refcount</i>	(Optional)
<i>metric</i>	(Optional)
<i>aspath</i>	(Optional)

**Command Mode**

- /exec

# show bgp paths

```
show [ ip ] bgp paths [ __readonly__ TABLE_id <id> <hashvalue> <refcount> <metric> <aspath> <origin> ]
```

## Syntax Description

show	Show running system information
ip	(Optional) Display IP information
bgp	Display BGP status and configuration
paths	Display Path information
__readonly__	(Optional)
TABLE_id	(Optional)
<i>id</i>	(Optional)
<i>hashvalue</i>	(Optional)
<i>refcount</i>	(Optional)
<i>metric</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)

## Command Mode

- /exec

## show bgp peer-template

```
show [ ip ] bgp peer-template [ <peer-template-name> ] [ __readonly__ { TABLE_neighbor <templatepeer>
[ <remoteas> ] [ <inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent>
} ] [ <description> ] [ <sourceif> ] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <bfdmintxinterval>
] [ <bfdminrxinterval> ] [ <bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <tllimit> ] [ <dscp>
] [ <password> ] [ <passiveonly> ] <localas-inactive> [ <remove-privateas> ] [ <configholdtime>
<configkeepalivetime> ] [ TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [ <tableversion>
] [ <neighbortableversion> ] [ <pfxrcvd> ] [ <pathsrecvd> ] [ <pfxbytes> ] [ <pfxsent> ] [ <pathsstent> ] [
<conditionmap> <advertisemap> <advertisemapstatus> ] <insoftreconfigallowed> [
<insoftreconfigallowedalways> ] [ <sendcommunity> ] [ <sendextcommunity> ] [ { <localnexthop> |
<ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [ <maxpfx_threshold> ] [ <soo> ] [ <weight>
] [ <allowasin> ] <asoverride> <peerascheckdisabled> [ <vplssignalingprotocol> ] [ { TABLE_inpolicy
<inpolicynr> <inpolicytype> <inpolicyname> [ <inpolicyhandle> } ] [ { TABLE_outpolicy <outpolicynr>
<outpolicytype> <outpolicyname> [ <outpolicyhandle> } ] ] <rrconfigured> <defaultoriginate> [
<defaultoriginatormap> ] [ <defaultsent> ] [ <grpathssaved> ] [ <firsteorrecvd> ] [ <firsteortime> ] [
<pathsflushed> ] [ <lasteorrecvtime> ] [ <lasteorsenttime> ] [ <firstconvgtime> ] [ <pfxsentfirsteor> ] [
<unsuppress-map> ] [ { TABLE_policy_template <preference> <inherit-policy-template> } ] [ TABLE_vrf
<vrf-name> [ TABLE_inheritingpeer <inheritingpeer> ] ] }
```

### Syntax Description

show	Show running system information
ip	(Optional) Display IP information
bgp	Display BGP status and configuration
peer-template	Display information about a peer-template
<i>peer-template-name</i>	(Optional) Peer-template name
<i>__readonly__</i>	(Optional)
TABLE_neighbor	(Optional)
<i>templatepeer</i>	(Optional)
<i>remoteas</i>	(Optional)
<i>inherit-template</i>	(Optional)
<i>inherit-session-template</i>	(Optional)
<i>prefix-parent</i>	(Optional)
<i>description</i>	(Optional)
<i>sourceif</i>	(Optional)
<i>connectedcheck</i>	(Optional)
<i>lowmemexempt</i>	(Optional)



<i>bfd</i>	(Optional)
<i>bfdmintxinterval</i>	(Optional)
<i>bfdminrxinterval</i>	(Optional)
<i>bfdmultiplier</i>	(Optional)
<i>bfdauthenticationtype</i>	(Optional)
<i>ttlsecurity</i>	(Optional)
<i>tllimit</i>	(Optional)
<i>dscp</i>	(Optional)
<i>passiveonly</i>	(Optional)
<i>password</i>	(Optional)
<i>localas-inactive</i>	(Optional)
<i>remove-privateas</i>	(Optional)
<i>configholdtime</i>	(Optional)
<i>configkeepalivetime</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_inheritingpeer	(Optional)
<i>inheritingpeer</i>	(Optional)
TABLE_peraf	(Optional)
<i>per-afi</i>	(Optional)
TABLE_persaf	(Optional)
<i>per-safi</i>	(Optional)
<i>per-af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>neighbortableversion</i>	(Optional)
<i>pfxrecvd</i>	(Optional)
<i>pathsrecvd</i>	(Optional)
<i>pfxbytes</i>	(Optional)
<i>pfxsent</i>	(Optional)

<i>pathssent</i>	(Optional)
<i>conditionmap</i>	(Optional)
<i>advertisemap</i>	(Optional)
<i>advertisemapstatus</i>	(Optional)
<i>insoftreconfigallowed</i>	(Optional)
<i>insoftreconfigallowedalways</i>	(Optional)
<i>sendcommunity</i>	(Optional)
<i>sendextcommunity</i>	(Optional)
<i>maxpfx</i>	(Optional)
<i>maxpfx_threshold</i>	(Optional)
<i>localnexthop</i>	(Optional)
TABLE_inpolicy	(Optional)
<i>inpolicynr</i>	(Optional)
<i>inpolicytype</i>	(Optional)
<i>inpolicyname</i>	(Optional)
<i>inpolicyhandle</i>	(Optional)
TABLE_outpolicy	(Optional)
<i>outpolicynr</i>	(Optional)
<i>outpolicytype</i>	(Optional)
<i>outpolicyname</i>	(Optional)
<i>outpolicyhandle</i>	(Optional)
<i>rrconfigured</i>	(Optional)
<i>defaultoriginate</i>	(Optional)
<i>defaultoriginatermap</i>	(Optional)
<i>defaultsent</i>	(Optional)
<i>grpathssaved</i>	(Optional)
<i>firsteorrecvd</i>	(Optional)
<i>firsteortime</i>	(Optional)
<i>pathsflushed</i>	(Optional)

<i>lasterrorrecvtime</i>	(Optional)
<i>lasteorsenttime</i>	(Optional)
<i>firstconvgttime</i>	(Optional)
<i>pfxsentfirsteor</i>	(Optional)
<i>unsuppress-map</i>	(Optional)
<i>thirdpartynexthop</i>	(Optional)
<i>soo</i>	(Optional)
<i>weight</i>	(Optional)
<i>allowasin</i>	(Optional)
<i>asoverride</i>	(Optional)
<i>peerascheckdisabled</i>	(Optional)
<i>vplsignalingprotocol</i>	(Optional)
TABLE_policy_template	(Optional)
<i>preference</i>	(Optional)
<i>inherit-policy-template</i>	(Optional)

**Command Mode**

- /exec

# show bgp peer

```
show [ ip ] bgp { peer-session [ <session-template-name> ] | peer-policy [ <policy-template-name> ] } [
__readonly__ TABLE_template <template> <present> [ { TABLE_command <command> [ <polarity> ] [
<updatesource> ] [ <description> ] [ <multihop> ] [ <holdtime> ] [ <keepalive> ] [ <dscp> ] [ <routemapin>
] [ <routemapout> ] [ <filterlistin> ] [ <filterlistout> ] [ <prefixlistin> ] [ <prefixlistout> ] [ <maxprefixlimit>
] [ <defaultorigin> ] } ] [ { TABLE_vrf <vrf-name> { TABLE_peer <inheritingpeer> } } ] ]
```

## Syntax Description

show	Show running system information
ip	(Optional) Display IP information
bgp	Display BGP status and configuration
peer-session	Display information about a peer-session
peer-policy	Display information about a peer-policy
<i>session-template-name</i>	(Optional) Peer-session name
<i>policy-template-name</i>	(Optional) Peer-policy name
<i>__readonly__</i>	(Optional)
TABLE_template	(Optional)
<i>template</i>	(Optional)
<i>present</i>	(Optional)
TABLE_command	(Optional)
<i>command</i>	(Optional)
<i>polarity</i>	(Optional)
<i>updatesource</i>	(Optional)
<i>description</i>	(Optional)
<i>multihop</i>	(Optional)
<i>holdtime</i>	(Optional)
<i>keepalive</i>	(Optional)
<i>dscp</i>	(Optional)
<i>routemapin</i>	(Optional)
<i>routemapout</i>	(Optional)
<i>filterlistin</i>	(Optional)

<i>filterlistout</i>	(Optional)
<i>prefixlistin</i>	(Optional)
<i>prefixlistout</i>	(Optional)
<i>maxprefixlimit</i>	(Optional)
<i>defaultorigin</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_peer	(Optional)
<i>inheritingpeer</i>	(Optional)

**Command Mode**

- /exec

## show bgp prefix-list

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } } prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhdwstr> ] [
<mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> {
<ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold_down> } } { <weight> <aspath>
<origin> [ <metric> ] [ <localpref> ] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> ] [ <importsorce>
[ <originalimportsorce> ] ] [ <importdestscount> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate>
] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity
<extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime>
<flaps> <flaptime> <flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [
<con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx>
] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsrgb_len> <psid_origrsrgb_flag> <psid_origrsrgb_base>
<psid_origrsrgb_end> ] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ]
[ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto
<advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
<i>test_pol_name</i>	An existing test-list policy
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
__readonly__	(Optional)

TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)

<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)



<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenaity</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)

<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec

# show bgp private attr

```
show bgp private attr [ remote-nh ] [ [ [ ipv4 { unicast | multicast } <ip-prefix> ] | [ ipv6 { unicast | multicast } <ipv6-prefix> ] ] [ detail ] ]
```

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
attr	Show BGP attributes
remote-nh	(Optional) Show Remote NH Attr
ipv4	(Optional) Display BGP information for IPv4 address family
ipv6	(Optional) Display BGP information for IPv6 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
detail	(Optional) Show detailed info
<i>ip-prefix</i>	(Optional) Show attribute for a prefix

## Command Mode

- /exec

# show bgp private debug history

show bgp private debug history { all | ead-es | es | mac }

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
debug	Debug
history	history
all	all
ead-es	ead-es
es	es
mac	mac

## Command Mode

- /exec

## show bgp process

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] process [ detail ] [
vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ [ <processid>
<protocolstartedreason> <protocoltag> <protocolstate> <isolatemode> <gshut-aware> <gshut-activate> [
<gshut-map> ] <mmode> <memorystate> [ <mallocmemorystate> ] [ <platformmemorystate> ] [
<lowmemorytimer> ] [ <issu> ] <forwardingstatesaved> <asformat> [ <fabricsoo> ] [ <srgbmin> <srgbmax>
] [ <epeconfiguredpeers> <epeactivepeers> ] <attributeentries> <hwmattributeentries> <bytesused>
<entriespendingdelete> <hwmentriespendingdelete> <pathsperattribute> <aspathentries> <aspathbytes> ]
TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [ <vrf-delete-pending> ] [
<vrf-evpn-mpls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip>
] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [
<vrf-vipr-router-mac> ] [ <vrf-router-id> ] [ <vrf-cfgd-id> ] [ <vrf-local-as> ] [ <vrf-confed-id> ] [
<vrf-cluster-id> ] [ <vrf-reconnect-interval> ] [ <vrf-peers> ] [ <vrf-pending-peers> ] [ <vrf-est-peers> ] [
<vrf-cfgd-max-as-limit> ] [ <vrf-max-as-limit> ] [ <vrf-rd-configured> ] [ <vrf-rd> ] [ <vrf-pending-rd> ] {
TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [ <af-num-peers> ] [
<af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ] [ <af-peer-aggregates>
] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] [ { TABLE_redist <protocol> <route-map> }
] <wait-igp-convergence> [ { TABLE_add_paths_selection <route-map> } ] [ TABLE_export_rt <export-rt>
] [ TABLE_import_rt <import-rt> ] [ TABLE_evpn_export_rt <evpn-export-rt> ] [ TABLE_evpn_import_rt
<evpn-import-rt> ] [ TABLE_mvpn_export_rt <mvpn-export-rt> ] [ TABLE_mvpn_import_rt <mvpn-import-rt>
] [ <af-label-mode> ] [ <af-aggregate-label> ] [ <srv6-alloc-mode> ] [ <srv6-end-function> ] [
<importdefault_prefixlimit> <importdefault_prefixcount> <importdefault_map> <importdefault_advertisevpn>
] <import_vrf_advertisevpn> [ <exportdefault_prefixlimit> <exportdefault_prefixcount> <exportdefault_map>
<exportdefault_allowvpn> ] <export_vrf_allowvpn> <af-rr> <default-information-enabled> [
<default-information-rd> <default-information-rt> ] <nexthop-trigger-delay-critical>
<nexthop-trigger-delay-non-critical> [ <nexthop-route-map> ] } ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
process	BGP global information
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>processid</i>	(Optional)
<i>protocolstartedreason</i>	(Optional)
<i>protocoltag</i>	(Optional)
<i>protocolstate</i>	(Optional)

<i>isolatemode</i>	(Optional)
<i>gshut-aware</i>	(Optional)
<i>gshut-activate</i>	(Optional)
<i>gshut-map</i>	(Optional)
<i>mmode</i>	(Optional)
<i>memorystate</i>	(Optional)
<i>mallocmemorystate</i>	(Optional)
<i>platformmemorystate</i>	(Optional)
<i>lowmemorytimer</i>	(Optional)
<i>issu</i>	(Optional)
<i>forwardingstatesaved</i>	(Optional)
<i>asformat</i>	(Optional)
<i>attributeentries</i>	(Optional)
<i>fabricsoo</i>	(Optional)
<i>srgbmin</i>	(Optional)
<i>srgbmax</i>	(Optional)
<i>epeconfiguredpeers</i>	(Optional)
<i>epeactivepeers</i>	(Optional)
<i>hwmattributeentries</i>	(Optional)
<i>bytesused</i>	(Optional)
<i>entriespendingdelete</i>	(Optional)
<i>hwmentriespendingdelete</i>	(Optional)
<i>pathsperattribute</i>	(Optional)
<i>aspathentries</i>	(Optional)
<i>aspathbytes</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional) VRF name
<i>vrf-id</i>	(Optional) VRF ID
<i>vrf-state</i>	(Optional) VRF State

<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-delete-pending</i>	(Optional) VRF delete pending
<i>vrf-evpn-mpls</i>	(Optional) VRF EVPN L3 MPLS
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<i>vrf-topo-id</i>	(Optional) VRF Topo ID
<i>vrf-encap-type</i>	(Optional) VRF encapsulation type
<i>vrf-vtep-ip</i>	(Optional) VRF VTEP IP
<i>vrf-vtep-virtual-ip</i>	(Optional) VRF VTEP Virtual IP
<i>vrf-vtep-vipr</i>	(Optional) VRF VTEP Virtual IP for Re-origination
<i>vrf-router-mac</i>	(Optional) VRF Router MAC
<i>vrf-vip-router-mac</i>	(Optional) VRF VIP Router MAC
<i>vrf-vipr-router-mac</i>	(Optional) VRF VIPR Router MAC
<i>vrf-router-id</i>	(Optional) Router ID
<i>vrf-cfgd-id</i>	(Optional) Configured Router-ID
<i>vrf-local-as</i>	(Optional) Local AS
<i>vrf-confed-id</i>	(Optional) Cluster-ID
<i>vrf-cluster-id</i>	(Optional) Cluster-ID
<i>vrf-reconnect-interval</i>	(Optional) VRF reconnect interval
<i>vrf-peers</i>	(Optional) No. of configured peers
<i>vrf-pending-peers</i>	(Optional) No. of pending peers
<i>vrf-est-peers</i>	(Optional) No. of established peers
<i>vrf-cfgd-max-as-limit</i>	(Optional) Configured maxas-limit
<i>vrf-max-as-limit</i>	(Optional) Active maxas-limit
<i>vrf-rd-configured</i>	(Optional) VRF RD Configured
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)
<i>af-id</i>	(Optional) AF ID

<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason
<i>af-num-peers</i>	(Optional) No. of peers
<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks
<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_redist	(Optional)
<i>protocol</i>	(Optional) Protocol
<i>route-map</i>	(Optional) Route Map
<i>wait-igp-convergence</i>	(Optional)
TABLE_add_paths_selection	(Optional)
<i>route-map</i>	(Optional) Route Map
TABLE_export_rt	(Optional)
<i>export-rt</i>	(Optional) Export route-target
TABLE_import_rt	(Optional)
<i>import-rt</i>	(Optional) Import route-target
TABLE_evpn_export_rt	(Optional)
<i>evpn-export-rt</i>	(Optional) Export EVPN route-target
TABLE_evpn_import_rt	(Optional)
<i>evpn-import-rt</i>	(Optional) Import EVPN route-target
TABLE_mvpn_export_rt	(Optional)
<i>mvpn-export-rt</i>	(Optional) Export MVPN route-target



TABLE_mvpn_import_rt	(Optional)
<i>mvpn-import-rt</i>	(Optional) Import MVPN route-target
<i>af-label-mode</i>	(Optional) Label allocation mode
<i>af-aggregate-label</i>	(Optional) Aggregate Label
<i>srv6-alloc-mode</i>	(Optional) Srv6 sid allocation mode
<i>srv6-end-function</i>	(Optional) Srv6 sid end function
<i>importdefault_prefixlimit</i>	(Optional) Maximum number of prefixes allowed
<i>importdefault_prefixcount</i>	(Optional) Current number of prefixes
<i>importdefault_map</i>	(Optional) Configured route-map
<i>importdefault_advertisevpn</i>	(Optional) Advertise-vpn is enabled
<i>import_vrf_advertisevpn</i>	(Optional) Advertise-vpn is enabled
<i>exportdefault_prefixlimit</i>	(Optional) Maximum number of prefixes allowed
<i>exportdefault_prefixcount</i>	(Optional) Current number of prefixes
<i>exportdefault_map</i>	(Optional) Configured route-map
<i>exportdefault_allowvpn</i>	(Optional) Allow-vpn is enabled
<i>export_vrf_allowvpn</i>	(Optional) Allow-vpn is enabled
<i>af-rr</i>	(Optional) Is a Route-reflector
<i>default-information-enabled</i>	(Optional) Default-information originate is enabled
<i>default-information-rd</i>	(Optional) Default-information originate RD
<i>default-information-rt</i>	(Optional) Default-information originate RT
<i>nexthop-trigger-delay-critical</i>	(Optional)
<i>nexthop-trigger-delay-non-critical</i>	(Optional)
<i>nexthop-route-map</i>	(Optional)

### Command Mode

- /exec

## show bgp received-paths

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } received-paths
[ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel>
] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode>
<bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { { <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> } [ <importsource> [ <originalimportsource> ] ] [ <importdstscount> ] [
TABLE_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community
<community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist
<clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife>
<flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [
<psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsrb_len>
<psid_origrsrb_flag> <psid_origrsrb_base> <psid_origrsrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsti> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family

ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)

<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)

<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)

<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)

<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec

## show bgp regexp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } regexp <regexp-str> [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi>
TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths>
<bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered>
] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ]
] [ <importdstscount> ] [ TABLE_importdsts <importdst> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths
__readonly__	(Optional)



TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)

<i>table-map-filtered</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)

<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)

<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

**Command Mode**

- /exec

## show bgp self-originated

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } self-originated [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ][ __readonly__ TABLE_vrf<vrf-name-out> TABLE_afi<afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstale> <pathhistory>
<pathvermaxaslimit> <pathmultipath> <pathnolabeledrnh> ] [ <importsource> [ <originalimportsource> ]
] [ <importdestscount> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalf-life> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsr-gb_len> <psid_origsr-gb_flag> <psid_origsr-gb_base> <psid_origsr-gb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
self-originated	Self originated routes
__readonly__	(Optional)
TABLE_vrf	(Optional)

<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>table-map-filtered</i>	(Optional)

<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdstscount</i>	(Optional)
TABLE_importdsts	(Optional)
<i>importdest</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)

<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>atomicaggregate</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)



<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgrb_len</i>	(Optional)
<i>psid_origsrgrb_flag</i>	(Optional)
<i>psid_origsrgrb_base</i>	(Optional)
<i>psid_origsrgrb_end</i>	(Optional)

**Command Mode**

- /exec

## show bgp sessions

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] sessions [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ <totalpeers>
<totalestablishedpeers> <localas> TABLE_vrf <vrf-name-out> <local-as> <vrfpeers> <vrfestablishedpeers>
<router-id> [ TABLE_neighbor <neighbor-id> <connectionsdropped> <remotear> [ <lastflap> ] [ <lastread>
] [ <lastwrite> ] <state> <localport> <remoteport> <notificationssent> <notificationreceived> ] ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
sessions	Display session information for all peers
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>local-as</i>	(Optional)
<i>totalpeers</i>	(Optional)
<i>totalestablishedpeers</i>	(Optional)
<i>router-id</i>	(Optional)
<i>localas</i>	(Optional)
<i>vrfpeers</i>	(Optional)
<i>vrfestablishedpeers</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighbor-id</i>	(Optional)
<i>connectionsdropped</i>	(Optional)
<i>remotear</i>	(Optional)
<i>lastflap</i>	(Optional)
<i>lastread</i>	(Optional)
<i>lastwrite</i>	(Optional)

<i>state</i>	(Optional)
<i>localport</i>	(Optional)
<i>remoteport</i>	(Optional)
<i>notificationssent</i>	(Optional)
<i>notificationsreceived</i>	(Optional)

**Command Mode**

- /exec

# show bgp statistics

```
show bgp statistics [ __readonly__ <msgsent> <msgrcvd> <bytesent> <bytercvd> <opensent> <openrcvd>
<updatesent> <updaterecvd> <kasent> <karecvd> <notifsent> <notifrcvd> <rrefreshsent> <rrefreshrcvd>
<capsent> <caprcvd> ]
```

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
statistics	BGP global statistics
__readonly__	(Optional)
<i>msgsent</i>	(Optional)
<i>msgrcvd</i>	(Optional)
<i>bytesent</i>	(Optional)
<i>bytercvd</i>	(Optional)
<i>opensent</i>	(Optional)
<i>openrcvd</i>	(Optional)
<i>updatesent</i>	(Optional)
<i>updaterecvd</i>	(Optional)
<i>kasent</i>	(Optional)
<i>karecvd</i>	(Optional)
<i>notifsent</i>	(Optional)
<i>notifrcvd</i>	(Optional)
<i>rrefreshsent</i>	(Optional)
<i>rrefreshrcvd</i>	(Optional)
<i>capsent</i>	(Optional)
<i>caprcvd</i>	(Optional)

## Command Mode

- /exec



<i>vrf-state</i>	(Optional) VRF State
<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-delete-pending</i>	(Optional) VRF delete pending
<i>vrf-evpn-mpls</i>	(Optional) VRF EVPN L3 MPLS
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<i>vrf-topo-id</i>	(Optional) VRF Topo ID
<i>vrf-encap-type</i>	(Optional) VRF encapsulation type
<i>vrf-vtep-ip</i>	(Optional) VRF VTEP IP
<i>vrf-vtep-virtual-ip</i>	(Optional) VRF VTEP Virtual IP
<i>vrf-vtep-vipr</i>	(Optional) VRF VTEP Virtual IP for Re-origination
<i>vrf-router-mac</i>	(Optional) VRF Router MAC
<i>vrf-vip-router-mac</i>	(Optional) VRF VIP Router MAC
<i>vrf-vipr-router-mac</i>	(Optional) VRF VIPR Router MAC
<i>vrf-router-id</i>	(Optional) Router ID
<i>vrf-cfgd-id</i>	(Optional) Configured Router-ID
<i>vrf-local-as</i>	(Optional) Local AS
<i>vrf-confed-id</i>	(Optional) Cluster-ID
<i>vrf-cluster-id</i>	(Optional) Cluster-ID
<i>vrf-reconnect-interval</i>	(Optional) VRF reconnect interval
<i>vrf-peers</i>	(Optional) No. of configured peers
<i>vrf-pending-peers</i>	(Optional) No. of pending peers
<i>vrf-est-peers</i>	(Optional) No. of established peers
<i>vrf-cfgd-max-as-limit</i>	(Optional) Configured maxas-limit
<i>vrf-max-as-limit</i>	(Optional) Active maxas-limit
<i>vrf-rd-configured</i>	(Optional) VRF RD Configured
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)

<i>af-id</i>	(Optional) AF ID
<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason
<i>af-num-peers</i>	(Optional) No. of peers
<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks
<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_saf	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>configuredpeers</i>	(Optional)
<i>capablepeers</i>	(Optional)
<i>totalnetworks</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>memoryused</i>	(Optional)
<i>numberattrs</i>	(Optional)
<i>bytesattrs</i>	(Optional)
<i>numberpaths</i>	(Optional)
<i>bytespaths</i>	(Optional)
<i>numbercommunities</i>	(Optional)
<i>bytescommunities</i>	(Optional)

<i>numberclusterlist</i>	(Optional)
<i>bytesclusterlist</i>	(Optional)
<i>dampening</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
<i>softreconfigrecvdpaths</i>	(Optional)
<i>softreconfigidenticalpaths</i>	(Optional)
<i>softreconfigcombopaths</i>	(Optional)
<i>softreconfigfilteredrecvd</i>	(Optional)
<i>softreconfigbytes</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighborid</i>	(Optional)
<i>neighborversion</i>	(Optional)
<i>neighboras</i>	(Optional)
<i>msgrecvd</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>neighborstableversion</i>	(Optional)
<i>inq</i>	(Optional)
<i>outq</i>	(Optional)
<i>time</i>	(Optional)
<i>state</i>	(Optional)
<i>prefixreceived</i>	(Optional)

**Command Mode**

- /exec



# show bgp summary

```
show bgp { ipv4 { unicast | multicast } | ipv6 { unicast | multicast } | ipv4 mdt | vpnv4 unicast | vpnv6 unicast
| ipv6 labeled-unicast | link-state | l2vpn vpls | ipv4 mvpn | ipv6 mvpn | l2vpn evpn | ipv4 labeled-unicast | all
} summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [ <vrf-delete-pending> ] [
<vrf-evpn-mps> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip>
] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [
<vrf-vipr-router-mac> ] [ <vrf-router-id> ] [ <vrf-cfgd-id> ] [ <vrf-local-as> ] [ <vrf-confed-id> ] [
<vrf-cluster-id> ] [ <vrf-reconnect-interval> ] [ <vrf-peers> ] [ <vrf-pending-peers> ] [ <vrf-est-peers> ] [
<vrf-cfgd-max-as-limit> ] [ <vrf-max-as-limit> ] [ <vrf-rd-configured> ] [ <vrf-rd> ] [ <vrf-pending-rd> ] [
TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [ <af-num-peers> ] [
<af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ] [ <af-peer-aggregates>
] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] TABLE_saf <safi> [ <af-name> ] [ <tableversion>
] [ <configuredpeers> ] [ <capablepeers> ] [ <totalnetworks> ] [ <totalpaths> ] [ <memoryused> ] [
<numberattrs> ] [ <bytesattrs> ] [ <numberpaths> ] [ <bytespaths> ] [ <numbercommunities> ] [
<bytescommunities> ] [ <numberclusterlist> ] [ <bytesclusterlist> ] [ <dampening> ] [ <historypaths> ] [
<dampenedpaths> ] [ <softreconfigrecvdpaths> ] [ <softreconfigidenticalpaths> ] [ <softreconfigcombopath>
] [ <softreconfigfilteredrecvd> ] [ <softreconfigbytes> ] [ TABLE_neighbor <neighborid> [ <neighborversion>
] [ <msgrecvd> ] [ <msgsent> ] [ <neighbortableversion> ] [ <inq> ] [ <outq> ] [ <neighboras> ] [ <time> ]
[ <state> ] [ <prefixreceived> ] ] ] ]
```

## Syntax Description

show	Show running system information
bgp	Display BGP 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	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
labeled-unicast	Display BGP information for labeled-unicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family

<code>l2vpn</code>	Display BGP information for L2VPN address family
<code>vpls</code>	Display BGP information for L2VPN VPLS address family
<code>mvpn</code>	Display BGP information for MVPN address family
<code>evpn</code>	Display BGP information for L2VPN EVPN address family
<code>all</code>	Display BGP information for all address families
<code>__readonly__</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>vrf-name-out</code>	(Optional) VRF name
<code>vrf-id</code>	(Optional) VRF ID
<code>vrf-state</code>	(Optional) VRF State
<code>vrf-state-rsn</code>	(Optional) VRF State Reason
<code>vrf-delete-pending</code>	(Optional) VRF delete pending
<code>vrf-evpn-mpls</code>	(Optional) VRF EVPN L3 MPLS
<code>vrf-vni-id</code>	(Optional) VRF VNI ID
<code>vrf-vni-id-valid</code>	(Optional) VRF VNI ID validity
<code>vrf-topo-id</code>	(Optional) VRF Topo ID
<code>vrf-encap-type</code>	(Optional) VRF encapsulation type
<code>vrf-vtep-ip</code>	(Optional) VRF VTEP IP
<code>vrf-vtep-virtual-ip</code>	(Optional) VRF VTEP Virtual IP
<code>vrf-vtep-vipr</code>	(Optional) VRF VTEP Virtual IP for Re-origination
<code>vrf-router-mac</code>	(Optional) VRF Router MAC
<code>vrf-vip-router-mac</code>	(Optional) VRF VIP Router MAC
<code>vrf-vipr-router-mac</code>	(Optional) VRF VIPR Router MAC
<code>vrf-router-id</code>	(Optional) Router ID
<code>vrf-cfgd-id</code>	(Optional) Configured Router-ID
<code>vrf-local-as</code>	(Optional) Local AS
<code>vrf-confed-id</code>	(Optional) Cluster-ID
<code>vrf-cluster-id</code>	(Optional) Cluster-ID
<code>vrf-reconnect-interval</code>	(Optional) VRF reconnect interval

<i>vrf-peers</i>	(Optional) No. of configured peers
<i>vrf-pending-peers</i>	(Optional) No. of pending peers
<i>vrf-est-peers</i>	(Optional) No. of established peers
<i>vrf-cfgd-max-as-limit</i>	(Optional) Configured maxas-limit
<i>vrf-max-as-limit</i>	(Optional) Active maxas-limit
<i>vrf-rd-configured</i>	(Optional) VRF RD Configured
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)
<i>af-id</i>	(Optional) AF ID
<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason
<i>af-num-peers</i>	(Optional) No. of peers
<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks
<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_saf	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>configuredpeers</i>	(Optional)
<i>capablepeers</i>	(Optional)

<i>totalnetworks</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>memoryused</i>	(Optional)
<i>numberattrs</i>	(Optional)
<i>bytesattrs</i>	(Optional)
<i>numberpaths</i>	(Optional)
<i>bytespaths</i>	(Optional)
<i>numbercommunities</i>	(Optional)
<i>bytescommunities</i>	(Optional)
<i>numberclusterlist</i>	(Optional)
<i>bytesclusterlist</i>	(Optional)
<i>dampening</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
<i>softreconfigrecvdpaths</i>	(Optional)
<i>softreconfigidenticalpaths</i>	(Optional)
<i>softreconfigcombopath</i>	(Optional)
<i>softreconfigfilteredrecvd</i>	(Optional)
<i>softreconfigbytes</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighborid</i>	(Optional)
<i>neighborversion</i>	(Optional)
<i>neighboras</i>	(Optional)
<i>msgrecvd</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>neighbortableversion</i>	(Optional)
<i>inq</i>	(Optional)
<i>outq</i>	(Optional)
<i>time</i>	(Optional)

<i>state</i>	(Optional)
<i>prefixreceived</i>	(Optional)

**Command Mode**

- /exec

# show boot

```
show boot [ __readonly__ { [ TABLE_bootvar_show <Str1> ] [ TABLE_Current_Bootvar
<current_sup_module> <current_image> [ <current_sup_module> ] [ <current_image> ] <current_poap_status>
] [ TABLE_Startup_Bootvar <start_sup_module> <start_image> [ <start_sup_module> ] [ <start_image> ]
<start_poap_status> ] } ]
```

## Syntax Description

show	Show running system information
boot	Show Bootvar Variables
__readonly__	(Optional)
TABLE_bootvar_show	(Optional) Bootvar table
TABLE_Current_Bootvar	(Optional) Table for current boot variables
TABLE_Startup_Bootvar	(Optional) Table for boot variables on next reload
<i>Str1</i>	(Optional)
<i>current_sup_module</i>	(Optional) Current boot variable supervisor module
<i>current_image</i>	(Optional) Current image set for boot variable
<i>current_poap_status</i>	(Optional) Current status for poap
<i>start_sup_module</i>	(Optional) Next reload supervisor module
<i>start_image</i>	(Optional) Next reload boot variable
<i>start_poap_status</i>	(Optional) Next reload poap status

## Command Mode

- /exec

## show boot auto-copy

```
show boot auto-copy [ __readonly__ { [ TABLE_auto_copy <Str1> <status> ] } ]
```

### Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autocopy is turned on
__readonly__	(Optional)
TABLE_auto_copy	(Optional) Auto copy table
<i>Str1</i>	(Optional)
<i>status</i>	(Optional) status of auto copy is enable/disable

### Command Mode

- /exec

# show boot auto-copy list

show boot auto-copy list [ \_\_readonly\_\_ { [ TABLE\_auto\_copy\_list <Str1> <file> ] } ]

## Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autcopy is turned on
list	Show the list of files to be auto-copied
__readonly__	(Optional)
TABLE_auto_copy_list	(Optional) Auto copy table
<i>Str1</i>	(Optional)
<i>file</i>	(Optional) file in the auto copy list

## Command Mode

- /exec



# show boot current

```
show boot current [ __readonly__ { [ TABLE_bootvar_current <Str1> ] [ TABLE_current_bootvar
<current_sup_module> <current_image> [ <current_sup_module> ] [ <current_image> ] ] } ]
```

## Syntax Description

show	Show running system information
boot	Show Bootvar Variables
current	Show Current Bootvar Variables
__readonly__	(Optional)
TABLE_bootvar_current	(Optional) Bootvar current table
TABLE_current_bootvar	(Optional) Current booted image table
<i>Str1</i>	(Optional)
<i>current_sup_module</i>	(Optional) Current boot variable supervisor module
<i>current_image</i>	(Optional) Current image set for boot variable

## Command Mode

- /exec

# show boot mode

```
show boot mode [ __readonly__ { [ TABLE_mode <Str1> <current_boot_mode> [ <configured_boot_mode> ] ] } ]
```

## Syntax Description

show	Show boot mode information
boot	Show boot mode
mode	See if lxc boot is turned on
__readonly__	(Optional)
TABLE_mode	(Optional) boot mode table
<i>Str1</i>	(Optional)
<i>current_boot_mode</i>	(Optional) current running boot mode
<i>configured_boot_mode</i>	(Optional) configured boot mode in running config

## Command Mode

- /exec

# show boot order

```
show boot order [ __readonly__ { [ TABLE_bootvar_order <Str1> ] [ TABLE_boot_order <current_order>
<next_order> ] } ]
```

## Syntax Description

show	Show running system information
boot	Show Bootvar Variables
order	Show Boot Order
__readonly__	(Optional)
TABLE_bootvar_order	(Optional) Boot order table
TABLE_boot_order	(Optional) Current boot order table
<i>Str1</i>	(Optional)
<i>current_order</i>	(Optional) order of the boot location
<i>next_order</i>	(Optional) order of the boot location

## Command Mode

- /exec

# show boot timings

show boot timings

## Syntax Description

show	Show running system information
boot	show boot information
timings	show boot timings

## Command Mode

- /exec

# show boot variables

```
show boot variables [ __readonly__ { [ TABLE_boot_vars <Str1> <boot_variable> } ] ]
```

## Syntax Description

show	Show running system information
boot	Show Bootvar Variables
variables	Display the list of boot variables
__readonly__	(Optional)
TABLE_boot_vars	(Optional) Show boot variables table
<i>Str1</i>	(Optional)
<i>boot_variable</i>	(Optional) available boot variable

## Command Mode

- /exec

show boot variables



## C Show Commands

---

- [show callhome](#), on page 200
- [show callhome destination-profile](#), on page 202
- [show callhome destination-profile profile](#), on page 203
- [show callhome destination-profile profile CiscoTAC-1](#), on page 204
- [show callhome destination-profile profile full-txt-destination](#), on page 205
- [show callhome destination-profile profile short-txt-destination](#), on page 206
- [show callhome transport-email](#), on page 207
- [show callhome transport](#), on page 208
- [show callhome user-def-cmds](#), on page 210
- [show catena](#), on page 211
- [show catena analytics](#), on page 212
- [show cdp](#), on page 214
- [show cdp all](#), on page 216
- [show cdp global](#), on page 217
- [show cdp neighbors](#), on page 218
- [show cdp neighbors detail](#), on page 219
- [show cdp traffic interface2](#), on page 221
- [show cdp traffic interface2 all](#), on page 222
- [show cfs application](#), on page 223
- [show cfs lock](#), on page 224
- [show cfs merge status](#), on page 225
- [show cfs peers](#), on page 227
- [show cfs regions](#), on page 228
- [show cfs status](#), on page 230
- [show checkpoint](#), on page 231
- [show checkpoint](#), on page 232
- [show checkpoint summary](#), on page 233
- [show class-map](#), on page 234
- [show class-map type control-plane](#), on page 236
- [show class-map type network-qos](#), on page 237
- [show cli alias](#), on page 238
- [show cli dynamic-cmd](#), on page 239
- [show cli dynamic integers](#), on page 240

- [show cli dynamic strings](#), on page 241
- [show cli history](#), on page 242
- [show cli interface table](#), on page 243
- [show cli list](#), on page 244
- [show cli syntax](#), on page 245
- [show cli variables](#), on page 246
- [show clock](#), on page 247
- [show config-profile](#), on page 248
- [show config-profile applied](#), on page 249
- [show config-replace log exec](#), on page 250
- [show config-replace status](#), on page 251
- [show config-template](#), on page 252
- [show configuration session](#), on page 253
- [show configuration session](#), on page 254
- [show configuration session global-info](#), on page 255
- [show configuration session status](#), on page 256
- [show configuration session summary](#), on page 257
- [show configuration session vsh](#), on page 258
- [show consistency-checker copp](#), on page 259
- [show consistency-checker dme interfaces](#), on page 260
- [show consistency-checker egress-xlate private-vlan](#), on page 261
- [show consistency-checker forwarding ipv6](#), on page 262
- [show consistency-checker forwarding show forwarding inconsistency](#), on page 264
- [show consistency-checker forwarding single-route ipv4 vrf](#), on page 266
- [show consistency-checker kim](#), on page 267
- [show consistency-checker kim interface](#), on page 268
- [show consistency-checker l2-tahoe module](#), on page 269
- [show consistency-checker l2-tahoe switchport interface](#), on page 270
- [show consistency-checker l2 multicast group source vlan](#), on page 271
- [show consistency-checker l3-interface module](#), on page 272
- [show consistency-checker l3 multicast source vrf](#), on page 273
- [show consistency-checker link-state fabric-ieth](#), on page 274
- [show consistency-checker link-state module](#), on page 275
- [show consistency-checker membership port-channels](#), on page 276
- [show consistency-checker membership vlan](#), on page 277
- [show consistency-checker port-state](#), on page 278
- [show consistency-checker port-state fabric-ieth](#), on page 279
- [show consistency-checker racl module](#), on page 280
- [show consistency-checker racl port-channels](#), on page 281
- [show consistency-checker racl svi interface](#), on page 282
- [show consistency-checker stp-state vlan](#), on page 283
- [show consistency-checker vxlan config-check](#), on page 284
- [show consistency-checker vxlan pv](#), on page 285
- [show consistency-checker vxlan vlan](#), on page 286
- [show controller accounting log](#), on page 287
- [show copp status](#), on page 288



- [show copyright](#), on page 289
- [show cores](#), on page 290
- [show crypto ca certificates](#), on page 291
- [show crypto ca certificates](#), on page 292
- [show crypto ca certstore](#), on page 293
- [show crypto ca crt](#), on page 294
- [show crypto ca remote-certstore](#), on page 295
- [show crypto ca trustpoints](#), on page 296
- [show crypto ca trustpool](#), on page 297
- [show crypto ca trustpool last download status](#), on page 298
- [show crypto ca trustpool policy](#), on page 299
- [show crypto certificatemap](#), on page 300
- [show crypto key mypubkey rsa](#), on page 301
- [show crypto ssh-auth-map](#), on page 302
- [show cts](#), on page 303
- [show current](#), on page 304

# show callhome

```
show callhome [ __readonly__ <output_state> <info> <per_name> [ <name> ] <email_info> [ <email_conf>
] <ph_info> [ <ph_conf> ] <str_addr> [ <str_conf> ] <site_id> [ <site_id_conf> ] <cust_id> [ <cus_id_conf>
] <contr_id> [ <contr_id_conf> ] <swi_pri> [ <swi_pri_value> ] <dup_mess> <per_inv> <per_time>
<per_timeofday> <dist> ]
```

## Syntax Description

show	Show running system information
callhome	Show callhome information
<i>__readonly__</i>	(Optional)
<i>output_state</i>	(Optional)
<i>info</i>	(Optional)
<i>per_name</i>	(Optional)
<i>name</i>	(Optional)
<i>email_info</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>ph_info</i>	(Optional)
<i>ph_conf</i>	(Optional)
<i>str_addr</i>	(Optional)
<i>str_conf</i>	(Optional)
<i>site_id</i>	(Optional)
<i>site_id_conf</i>	(Optional)
<i>cust_id</i>	(Optional)
<i>cus_id_conf</i>	(Optional)
<i>contr_id</i>	(Optional)
<i>contr_id_conf</i>	(Optional)
<i>swi_pri</i>	(Optional)
<i>swi_pri_value</i>	(Optional)
<i>dup_mess</i>	(Optional)
<i>per_inv</i>	(Optional)

<i>per_time</i>	(Optional)
<i>per_timeofday</i>	(Optional)
<i>dist</i>	(Optional)

**Command Mode**

- /exec

## show callhome destination-profile

```
show callhome destination-profile [ __readonly__ { TABLE_call_info [ <dest_full_info> ] [ <dest_short_info>
] [ <dest_xml_info> ] [ <dest_def_info> ] <max_mess_size> <mess_format> <mess_level> <trans_method>
<email_info> [ <index> <email_conf> ] <url_info> [ <index> <url_conf> ] <alert_groups> [ <alert_conf> ]
} ]
```

### Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
<i>__readonly__</i>	(Optional)
<i>TABLE_call_info</i>	(Optional)
<i>dest_full_info</i>	(Optional)
<i>dest_short_info</i>	(Optional)
<i>dest_xml_info</i>	(Optional)
<i>dest_def_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_format</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>index</i>	(Optional)
<i>email_info</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

### Command Mode

- /exec

## show callhome destination-profile profile

```
show callhome destination-profile profile <s0> [ __readonly__ <user_txt_info> <max_mess_size>
<mess_format> <mess_level> <trans_method> <email_info> [ TABLE_email [ <index> <email_conf> ] ]
<url_info> [ TABLE_url [ <index> <url_conf> ] ] <alert_groups> [ TABLE_alert [ <alert_conf> ] ] ]
```

### Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
<i>s0</i>	Show information for user defined destination profile
<i>__readonly__</i>	(Optional)
<i>user_txt_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_format</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>index</i>	(Optional)
TABLE_email	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
TABLE_url	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
TABLE_alert	(Optional)
<i>alert_conf</i>	(Optional)

### Command Mode

- /exec

## show callhome destination-profile profile CiscoTAC-1

```
show callhome destination-profile profile CiscoTAC-1 [ __readonly__ <tac_xml_info> <max_mess_size>
<mess_level> <trans_method> <email_info> [ <index> <email_conf> ] <url_info> [ <index> <url_conf> ]
<alert_groups> [ <alert_conf> ] ]
```

### Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
CiscoTAC-1	Show information for CiscoTAC-1 destination profile
<i>__readonly__</i>	(Optional)
<i>tac_xml_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>index</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

### Command Mode

- /exec

## show callhome destination-profile profile full-txt-destination

```
show callhome destination-profile profile full-txt-destination [ __readonly__ <full_txt_info> <max_mess_size>
<mess_level> <trans_method> <email_info> [ <index> <email_conf> ] <url_info> [ <index> <url_conf> ]
<alert_groups> [ <alert_conf> ] ]
```

### Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
full-txt-destination	Show information for full-txt-destination destination profile
<i>__readonly__</i>	(Optional)
<i>full_txt_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>index</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

### Command Mode

- /exec

# show callhome destination-profile profile short-txt-destination

```
show callhome destination-profile profile short-txt-destination [ __readonly__ <shrt_txt_info>
<max_mess_size> <mess_level> <trans_method> <email_info> [ <index> <email_conf> ] <url_info> [
<index> <url_conf> ] <alert_groups> [ <alert_conf> ] ]
```

## Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
short-txt-destination	Show information for short-txt-destination destination profile
<i>__readonly__</i>	(Optional)
<i>shrt_txt_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>index</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

## Command Mode

- /exec



# show callhome transport-email

```
show callhome transport-email [ __readonly__ { <from_email> } [ <reply_to_email> ] [ <return_receipt_addr> ] { <smtp_server> } [ <smtp_server_port> ] ]
```

## Syntax Description

<code>__readonly__</code>	(Optional)
<code>show</code>	Show running system information
<code>callhome</code>	Show callhome information
<code>transport-email</code>	Show callhome email transport configuration
<code>from_email</code>	(Optional)
<code>reply_to_email</code>	(Optional)
<code>return_receipt_addr</code>	(Optional)
<code>smtp_server</code>	(Optional)
<code>smtp_server_port</code>	(Optional)

## Command Mode

- /exec

## show callhome transport

```
show callhome transport [ __readonly__ <vrf> <from_email> [ <rep_email> ] [ <ret_email> ] [ <smtp_ser>
] [ <smtp_ser_port> ] [ <smtp_ser_vrf> ] [ <smtp_ser_prior> ] [ <smtp_ser_do> ] [ <smtp_ser_port_do> ] [
<smtp_ser_vrf_do> ] [ <smtp_ser_prior_do> ] [ <smtp_ser_got> ] [ <smtp_ser_port_got> ] [
<smtp_ser_vrf_got> ] [ <smtp_ser_prior_got> ] <http_prox> <http_port> <http_state> ]
```

### Syntax Description

show	Show running system information
callhome	Show callhome information
transport	Show callhome transport configuration (email and http)
<i>__readonly__</i>	(Optional)
<i>vrf</i>	(Optional)
<i>from_email</i>	(Optional)
<i>rep_email</i>	(Optional)
<i>ret_email</i>	(Optional)
<i>smtp_ser</i>	(Optional)
<i>smtp_ser_port</i>	(Optional)
<i>smtp_ser_vrf</i>	(Optional)
<i>smtp_ser_prior</i>	(Optional)
<i>smtp_ser_do</i>	(Optional)
<i>smtp_ser_port_do</i>	(Optional)
<i>smtp_ser_vrf_do</i>	(Optional)
<i>smtp_ser_prior_do</i>	(Optional)
<i>smtp_ser_got</i>	(Optional)
<i>smtp_ser_port_got</i>	(Optional)
<i>smtp_ser_vrf_got</i>	(Optional)
<i>smtp_ser_prior_got</i>	(Optional)
<i>http_prox</i>	(Optional)
<i>http_port</i>	(Optional)
<i>http_state</i>	(Optional)

## Command Mode

- /exec

## show callhome user-def-cmds

```
show callhome user-def-cmds [ __readonly__ { <user_configured_cmds> } [ { TABLE_user_def_cmds
<alert_group> <index> <user_defined_cmds> } ] ]
```

### Syntax Description

show	Show running system information
callhome	Show callhome information
user-def-cmds	Show the cli commands configured for each alert group
<i>__readonly__</i>	(Optional)
<i>user_configured_cmds</i>	(Optional) List of user configured commands
TABLE_user_def_cmds	(Optional)
<i>index</i>	(Optional)
<i>alert_group</i>	(Optional)
<i>user_defined_cmds</i>	(Optional)

### Command Mode

- /exec

## show catena

```
show catena <instance-name> [ brief ] [ __readonly__ <instance_name> <state> { TABLE_chain <chain> [
TABLE_rule <seqno> <aclname> <whichconfig> [ <vlan_group> ] [ <ingress_port> ] [ <egress_port> ] [
<egress_device> ] [ <mode> ] [ <l2_lb> ] ] } ]
```

### Syntax Description

show	Show running system information
catena	catena
<i>instance-name</i>	instance name
brief	(Optional) brief
__readonly__	(Optional) Read Only
<i>instance_name</i>	(Optional) instance_name
<i>state</i>	(Optional) status
TABLE_chain	(Optional)
<i>chain</i>	(Optional) chain
TABLE_rule	(Optional)
<i>seqno</i>	(Optional) seqno
<i>aclname</i>	(Optional) aclname
<i>whichconfig</i>	(Optional) whichconfig
<i>vlan_group</i>	(Optional) vlangrp
<i>ingress_port</i>	(Optional) ingress_portgrp
<i>egress_port</i>	(Optional) egress_portgrp
<i>egress_device</i>	(Optional) egress_device
<i>mode</i>	(Optional) mode
<i>l2_lb</i>	(Optional) L2 Load Balance

### Command Mode

- /exec

## show catena analytics

```
show catena analytics { per-acl { per-node | per-device-group | per-vlan-group | per-port-group | total } |
per-catena-instance <instance-name> [ per-chain [ <chain-id> ] ] } [ __readonly__ <instance_name>
<per_node> <per_node_total> <per_node_total_val> <per_intf_total_val> <per_vlan_total_val> <chain_id>
<per_device_group> <per_device_group_hdr> <per_device_group_val> <per_vlan_group>
<per_vlan_group_hdr> <per_vlan_group_val> <per_port_group> <per_port_group_val> <per_port_group_hdr>
<total_val> <stats_counter> ]
```

### Syntax Description

show	Show running system information
catena	catena
analytics	show analytics for catena
per-acl	per ACL
per-node	per Node
per-device-group	per Device group
per-vlan-group	per Vlan Group
per-port-group	per EgressPort Group
total	per ACL Total
per-catena-instance	per Catena Instance
<i>instance-name</i>	Name of Catena Instance
per-chain	(Optional) per Chain
<i>chain-id</i>	(Optional) chain ID
__readonly__	(Optional) Read Only
<i>instance_name</i>	(Optional) Catena Instance name
<i>chain_id</i>	(Optional) Chain ID
<i>per_node</i>	(Optional) per Node
<i>per_node_total</i>	(Optional) per Node total
<i>per_node_total_val</i>	(Optional) per Node total val
<i>per_intf_total_val</i>	(Optional) per Intf Total val
<i>per_vlan_total_val</i>	(Optional) per Vlan total val
<i>per_device_group</i>	(Optional) per Device Group

<i>per_device_group_hdr</i>	(Optional) per Device Group Header
<i>per_device_group_val</i>	(Optional) per Device Group Val
<i>per_vlan_group</i>	(Optional) per Vlan Group
<i>per_vlan_group_val</i>	(Optional) per Vlan Group Val
<i>per_vlan_group_hdr</i>	(Optional) per Vlan roup Header
<i>per_port_group</i>	(Optional) per EgressPort Group
<i>per_port_group_val</i>	(Optional) per EgressPort Group Val
<i>per_port_group_hdr</i>	(Optional) per EgressPort Group Header
<i>total_val</i>	(Optional) per ACL total
<i>stats_counter</i>	(Optional) stats_counter

**Command Mode**

- /exec

# show cdp

```
show cdp { entry { all | name <s0> } } [ __readonly__ TABLE_cdp_entry_all <device_id> [ <sysname> ]
[ { <v4addr> | <v6addr> } + ] <platform_id> <capability> + <intf_id> <port_id> <ttl> <version> <version_no>
[ <nativevlan> ] [ <vtpname> ] [ <duplexmode> ] [ <syslocation> ] [ { <v4mgmtaddr> | <v6mgmtaddr> } +
] ]
```

## Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
entry	Show CDP entries in database
all	Show all CDP entries in database
name	Show a specific CDP entry matching a name
s0	
__readonly__	(Optional) Read only
TABLE_cdp_entry_all	(Optional) output of show cdp entry all
device_id	(Optional) Device Identifier
sysname	(Optional) System Name
v4addr	(Optional) Interface IP V4 Address
v6addr	(Optional) Interface IP V6 Address
platform_id	(Optional) Platform Id
capability	(Optional) Capability
intf_id	(Optional) Interface Id
port_id	(Optional) Port Identifier
ttl	(Optional) Hold Time
version	(Optional) Software Version
version_no	(Optional) CDP version number
nativevlan	(Optional) NativeVLAN
vtpname	(Optional) Vtp Management Domain Name
duplexmode	(Optional) Duplex Mode
syslocation	(Optional) System Location



<i>v4mgmtaddr</i>	(Optional) IP V4 Mgmt Address
<i>v6mgmtaddr</i>	(Optional) IP V6 Mgmt Address

**Command Mode**

- /exec

# show cdp all

```
show cdp { all | interface <if0> } [ __readonly__ TABLE_cdp_all <intf_id> <port_up> [ <cdp_global_enabled>
] <cdp_intf_enabled> [ <oper_mode> ] <refresh_time> <ttl> ]
```

## Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
all	Show all interfaces in CDP database
interface	Show CDP parameters for an interface
<i>if0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_cdp_all</i>	(Optional) output of show cdp all
<i>intf_id</i>	(Optional) Interface Id
<i>port_up</i>	(Optional) Port status
<i>cdp_global_enabled</i>	(Optional) CDP global status
<i>cdp_intf_enabled</i>	(Optional) CDP interface status
<i>oper_mode</i>	(Optional) CDP operation mode
<i>refresh_time</i>	(Optional) Refresh Time
<i>ttl</i>	(Optional) Hold Time

## Command Mode

- /exec

# show cdp global

```
show cdp global [ __readonly__ <cdp_global_enabled> <refresh_time> <ttl> <v2_advertisement>
<deviceid_format> ]
```

## Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
global	Show CDP global parameters
<i>__readonly__</i>	(Optional) Read only
<i>cdp_global_enabled</i>	(Optional) CDP global status
<i>refresh_time</i>	(Optional) Refresh Time
<i>ttl</i>	(Optional) Hold Time
<i>v2_advertisement</i>	(Optional) Show v2 advertisement
<i>deviceid_format</i>	(Optional) Show deviceId Format

## Command Mode

- /exec

## show cdp neighbors

```
show cdp neighbors [ interface <if> ] [ __readonly__ { TABLE_cdp_neighbor_brief_info <ifindex>
<device_id> <intf_id> <ttl> <capability> + <platform_id> <port_id> } { <neigh_count> } ]
```

### Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
neighbors	Show CDP neighbors
interface	(Optional) Show CDP neighbors on an interface
<i>if</i>	(Optional) Specify Interface
<i>__readonly__</i>	(Optional) Read only
TABLE_cdp_neighbor_brief_info	(Optional) output of show cdp neighbor - in brief
<i>ifindex</i>	(Optional) Interface index
<i>device_id</i>	(Optional) System Name (or) Device Identifier
<i>intf_id</i>	(Optional) Interface Id
<i>port_id</i>	(Optional) Port Identifier
<i>platform_id</i>	(Optional) Platform Id
<i>ttl</i>	(Optional) Hold Time
<i>capability</i>	(Optional) Capability
<i>neigh_count</i>	(Optional) Neighbor Count

### Command Mode

- /exec

# show cdp neighbors detail

```
show cdp neighbors [ interface <if> ] detail [ __readonly__ TABLE_cdp_neighbor_detail_info <ifindex>
<device_id> [ <sysname> ] [ <vtpname> ] <numaddr> [ { <v4addr> | <v6addr> } + ] <platform_id>
<capability> + <intf_id> <port_id> <ttl> <version> <version_no> [ <nativevlan> ] [ <duplexmode> ] [ <mtu>
] [ <syslocation> ] [ <num_mgmtaddr> [ { <v4mgmtaddr> | <v6mgmtaddr> } + ] ] <local_intf_mac>
<remote_intf_mac> ]
```

## Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
neighbors	Show CDP neighbors
detail	Show CDP neighbors detailed
interface	(Optional) Show CDP neighbors on an interface
<i>if</i>	(Optional) Specify Interface
<i>__readonly__</i>	(Optional) Read only
TABLE_cdp_neighbor_detail_info	(Optional) output of show cdp neighbor detail
<i>ifindex</i>	(Optional) Interface index
<i>device_id</i>	(Optional) Device Identifier
<i>sysname</i>	(Optional) System Name
<i>vtpname</i>	(Optional) Vtp Management Domain Name
<i>numaddr</i>	(Optional) No of IP Address configured
<i>v4addr</i>	(Optional) Interface IP V4 Address
<i>v6addr</i>	(Optional) Interface IP V6 Address
<i>platform_id</i>	(Optional) Platform Id
<i>capability</i>	(Optional) Capability
<i>intf_id</i>	(Optional) Interface Id
<i>port_id</i>	(Optional) Port Identifier
<i>ttl</i>	(Optional) Hold Time
<i>version</i>	(Optional) Software Version
<i>version_no</i>	(Optional) CDP version number
<i>nativevlan</i>	(Optional) NativeVLAN

<i>duplexmode</i>	(Optional) Duplex Mode
<i>mtu</i>	(Optional) MTU
<i>syslocation</i>	(Optional) System Location
<i>num_mgmtaddr</i>	(Optional) No of Mgmt Address configured
<i>v4mgmtaddr</i>	(Optional) IP V4 Mgmt Address
<i>v6mgmtaddr</i>	(Optional) IP V6 Mgmt Address
<i>local_intf_mac</i>	(Optional) Local interface MAC
<i>remote_intf_mac</i>	(Optional) Remote interface MAC

**Command Mode**

- /exec

## show cdp traffic interface2

```
show cdp traffic interface2 <if2> [ __readonly__ <intf_id> <total_input_packets> <valid_cdp_packets>
<input_v1_packets> <input_v2_packets> <invalid_cdp_packets> <unsupported_version> <checksum_errors>
<malformed_packets> <total_output_packets> <output_v1_packets> <output_v2_packets> <send_errors>
<flap_cnt> ]
```

### Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
traffic	Show CDP traffic statistics
interface2	Show CDP traffic statistics on an interface
<i>if2</i>	
<i>__readonly__</i>	(Optional) Read only
<i>intf_id</i>	(Optional) Interface Id
<i>total_input_packets</i>	(Optional) Total input cdp packets
<i>valid_cdp_packets</i>	(Optional) Total valid cdp packets
<i>input_v1_packets</i>	(Optional) Input vesrion1 packets
<i>input_v2_packets</i>	(Optional) Input vesrion2 packets
<i>invalid_cdp_packets</i>	(Optional) Invalid cdp packets
<i>unsupported_version</i>	(Optional) Packets having unsupported version
<i>checksum_errors</i>	(Optional) Packets having checksum errors
<i>malformed_packets</i>	(Optional) Total malformed packets
<i>total_output_packets</i>	(Optional) Total output packets
<i>output_v1_packets</i>	(Optional) Output vesrion1 packets
<i>output_v2_packets</i>	(Optional) Output vesrion2 packets
<i>send_errors</i>	(Optional) Number of send errors
<i>flap_cnt</i>	(Optional) Number of PDU timeout

### Command Mode

- /exec

## show cdp traffic interface2 all

```
show cdp traffic interface2 all [ __readonly__ TABLE_cdp_traffic <intf_id> <total_input_packets>
<valid_cdp_packets> <input_v1_packets> <input_v2_packets> <invalid_cdp_packets> <unsupported_version>
<checksum_errors> <malformed_packets> <total_output_packets> <output_v1_packets> <output_v2_packets>
<send_errors> <flap_cnt> ]
```

### Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
traffic	Show CDP traffic statistics
interface2	Show CDP traffic statistics on an interface
all	Display all interface traffic
__readonly__	(Optional) Read only
TABLE_cdp_traffic	(Optional) output of show cdp traffic
intf_id	(Optional) Interface Id
total_input_packets	(Optional) Total input cdp packets
valid_cdp_packets	(Optional) Total valid cdp packets
input_v1_packets	(Optional) Input vesrion1 packets
input_v2_packets	(Optional) Input vesrion2 packets
invalid_cdp_packets	(Optional) Invalid cdp packets
unsupported_version	(Optional) Packets having unsupported version
checksum_errors	(Optional) Packets having checksum errors
malformed_packets	(Optional) Total malformed packets
total_output_packets	(Optional) Total output packets
output_v1_packets	(Optional) Output vesrion1 packets
output_v2_packets	(Optional) Output vesrion2 packets
send_errors	(Optional) Number of send errors
flap_cnt	(Optional) Number of PDU timeout

### Command Mode

- /exec



# show cfs application

```
show cfs application [ { name <cfs-dyn-app-name> | sap <i0> } ] [ __readonly__ [ <enabled> <timeout>
<merge_capable> <scope> <region> ] [ { TABLE_apps <app_name> <app_enabled> <app_scope> } ] ]
```

## Syntax Description

show	Show running system information
cfs	CFS Show Command handler
application	Show locally registered applications
name	(Optional) Show local application information by name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
sap	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>i0</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>enabled</i>	(Optional) whether application is CFS enabled
<i>timeout</i>	(Optional) timeout
<i>merge_capable</i>	(Optional) merge_capable
<i>scope</i>	(Optional) scope
<i>region</i>	(Optional) region
TABLE_apps	(Optional) all cfs applications
<i>app_name</i>	(Optional) name of cfs application
<i>app_enabled</i>	(Optional) whether application is cfs enabled
<i>app_scope</i>	(Optional) distribution scope of cfs application

## Command Mode

- /exec

# show cfs lock

```
show cfs lock [ { name <cfs-dyn-app-name> | sap <i1> } ] [ __readonly__ [ { TABLE_locks [ <app_name> ] <app_scope> [ <vsan> ] [ <domain> ] [ <wwn> ] <ip_addr> <u_name> <u_type> [ <hostname> ] } ] ]
```

## Syntax Description

show	Show running system information
cfs	CFS Show Command handler
lock	Show state of application's logical/physical locks
name	(Optional) Application name for which the lock status is required
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
sap	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>i1</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<code>__readonly__</code>	(Optional)
TABLE_locks	(Optional) table of all CFS locks
<i>app_name</i>	(Optional) name of CFS application
<i>app_scope</i>	(Optional) scope of CFS application
<i>vsan</i>	(Optional) vsan
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn of switch holding CFS lock
<i>ip_addr</i>	(Optional) ip address of switch holding CFS lock
<i>u_name</i>	(Optional) user name
<i>u_type</i>	(Optional) user type
<i>hostname</i>	(Optional) hostname

## Command Mode

- /exec

## show cfs merge status

```
show cfs merge status [ { name <cfs-dyn-app-name> [ detail ] | sap <i1> [ detail2 ] } ] [ __readonly__ [ {
scope <scope> } ] [ { merge_status <status> } ] [ { failure_reason <reason> } ] [ { TABLE_all_merge
<app_name> <scope> <vsan> <status> } ] [ { TABLE_local_fabric [ <domain> ] <wwn> <ip_addr>
<app_scope> [ <master> ] [ <hostname> ] } ] [ { TABLE_remote_fabric [ <domain> ] <wwn> <ip_addr>
<app_scope> [ <master> ] [ <hostname> ] } ] [ { TABLE_remaining_fabric [ <domain> ] <wwn> <ip_addr>
[ <hostname> ] } ] ] ]
```

### Syntax Description

show	Show running system information
cfs	CFS Show Command handler
merge	Show cfs merge information
status	Show status of merge
name	(Optional) Show merge status by name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
detail	(Optional) Show merge status by name in detail
sap	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>i1</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail2	(Optional) Show merge status by sap in detail
<u>__readonly__</u>	(Optional)
scope	(Optional) distribution scope of application
<i>scope</i>	(Optional) scope
merge_status	(Optional) status
<i>status</i>	(Optional) status
failure_reason	(Optional) reason
<i>reason</i>	(Optional) reason
TABLE_all_merge	(Optional) all
<i>app_name</i>	(Optional) name
<i>scope</i>	(Optional) scope
<i>vsan</i>	(Optional) vsan
<i>status</i>	(Optional) status

TABLE_local_fabric	(Optional) local fabric
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>app_scope</i>	(Optional) scope
<i>master</i>	(Optional) master
<i>hostname</i>	(Optional) hname
TABLE_remote_fabric	(Optional) remote fabric
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>app_scope</i>	(Optional) scope
<i>master</i>	(Optional) master
<i>hostname</i>	(Optional) hname
TABLE_remaining_fabric	(Optional) remote fabric
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>hostname</i>	(Optional) hname

**Command Mode**

- /exec

## show cfs peers

```
show cfs peers [ { name <cfs-dyn-app-name> | sap <i1> } ] [ __readonly__ [ { scope <scope> } ] ] [ {
TABLE_peers <wwn> <ip_addr> [ <local> ] [ <hostname> ] [ <domain> ] } ] ]
```

### Syntax Description

show	Show running system information
cfs	CFS Show Command handler
peers	Show all the peers in the physical fabric
name	(Optional) Show peers for given application name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
sap	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>i1</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
scope	(Optional) scope
<i>scope</i>	(Optional) scope
TABLE_peers	(Optional) all peers
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>local</i>	(Optional) local
<i>hostname</i>	(Optional) hname
<i>domain</i>	(Optional) domain

### Command Mode

- /exec

## show cfs regions

```
show cfs regions [ { brief [ region <i0> ] | name <cfs-dyn-app-name> | region1 <i1> } ] [ __readonly__ [ {
region <id> } ] [ { application <name> } ] [ { scope <scope> } ] [ { TABLE_PEERS <wwn> <ip_addr>
<local> [ <hostname> ] [ <domain> } ] ] [ { TABLE_switches [ <wwn> ] [ <ip_addr> ] <region> <app_name>
<enabled> [ <scope> } ] ] ]
```

### Syntax Description

show	Show running system information
cfs	CFS Show Command handler
regions	Show all the applications with peers and region information
brief	(Optional) Show all configured regions and applications(no peers)
region	(Optional) Show all configured applications(no peers)
<i>i0</i>	(Optional) Region Id
name	(Optional) Show peers and region information for a given application
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
region1	(Optional) Show all configured applications with peers
<i>i1</i>	(Optional) Region Id
__readonly__	(Optional)
region	(Optional) region
<i>id</i>	(Optional) id
application	(Optional) app
<i>name</i>	(Optional) name
scope	(Optional) scope
<i>scope</i>	(Optional) scope
TABLE_PEERS	(Optional) all region peers
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_address
<i>local</i>	(Optional) local
<i>hostname</i>	(Optional) hname
<i>domain</i>	(Optional) domain

<i>TABLE_switches</i>	(Optional) all switches in region
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>region</i>	(Optional) region
<i>app_name</i>	(Optional) name
<i>enabled</i>	(Optional) enabled
<i>scope</i>	(Optional) scope

**Command Mode**

- /exec

# show cfs status

```
show cfs status [ __readonly__ <distribution> <dist_over_ip> <ipv4_mcast_addr> <ipv6_mcast_addr>
<dist_over_eth> ]
```

## Syntax Description

show	Show running system information
cfs	CFS Show Command handler
status	Show current status of CFS
<i>__readonly__</i>	(Optional)
<i>distribution</i>	(Optional) operational status of CFS distribution
<i>dist_over_ip</i>	(Optional) operational status of CFS overIP
<i>ipv4_mcast_addr</i>	(Optional) ipv4 multicast address
<i>ipv6_mcast_addr</i>	(Optional) ipv6 multicast address
<i>dist_over_eth</i>	(Optional) operations status of CFSoE

## Command Mode

- /exec



# show checkpoint

```
show checkpoint <chkpoint_name> [ all ] [ __readonly__ TABLE_checkpoint_details <name1>
<checkpoint_config> + ]
```

## Syntax Description

show	Show running system information
checkpoint	Show configuration rollback checkpoint contents
<i>chkpoint_name</i>	Checkpoint name
all	(Optional) Show default config
__readonly__	(Optional) Read only
TABLE_checkpoint_details	(Optional) Checkpoint details
<i>name1</i>	(Optional) Checkpoint name
<i>checkpoint_config</i>	(Optional) Configuration entry from checkpoint

## Command Mode

- /exec

# show checkpoint

```
show checkpoint [ all ] [ user | system ] [ __readonly__ TABLE_checkpoint_details <name>
<checkpoint_config> + ]
```

## Syntax Description

show	Show running system information
checkpoint	Show configuration rollback checkpoints
all	(Optional) Show default config
user	(Optional) Show only user configuration rollback checkpoints
system	(Optional) Show only system configuration rollback checkpoints
__readonly__	(Optional) Read only
TABLE_checkpoint_details	(Optional) checkpoint details
<i>name</i>	(Optional) Checkpoint name
<i>checkpoint_config</i>	(Optional) Configuration entry from checkpoint

## Command Mode

- /exec

# show checkpoint summary

```
show checkpoint summary [ user | system ] [ __readonly__ TABLE_checkpoint_header_info <name>
<user_name> <timestamp> <file_path> <chkpt_type> <description> ]
```

## Syntax Description

<code>show</code>	Show running system information
<code>checkpoint</code>	Show configuration rollback checkpoints
<code>summary</code>	Show configuration rollback checkpoints summary
<code>user</code>	(Optional) Show only user configuration rollback checkpoints summary
<code>system</code>	(Optional) Show only system configuration rollback checkpoints summary
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_checkpoint_header_info</code>	(Optional) Checkpoint header info
<code>user_name</code>	(Optional) Username
<code>name</code>	(Optional) Checkpoint name
<code>file_path</code>	(Optional) Checkpoint name
<code>timestamp</code>	(Optional) Timestamp of checkpoint creation
<code>chkpt_type</code>	(Optional) Type of checkpoint either user or system
<code>description</code>	(Optional) Checkpoint description

## Command Mode

- /exec

## show class-map

```
show class-map [ { [ type qos ] [ <omap-name> | xxx <color-map-enum-name> ] } | { type queuing [ yyy
<omap-enum-name> | zzz <default-omap-enum-name> | <omap-dce-name> | <omap-name-hque> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_omap [ <omap-key> ] [ <nq-omap-key> ] [ <nq-omap-name> ] [
<nq-cos-list> ] [ <nq-qos-group-list> ] [ <protocol> ] [ <id> ] <xqos-or-q> [ <any_or_all> ] <omap-name-out>
[ <desc> ] [ <nq-desc> ] [ TABLE_match <match-key> [ <not> ] [ <dscp-list> ] [ <precedence-list> ] [
<cos-list> ] [ <qos-group-list> ] [ <discard-class-list> ] [ <vlan-list> ] [ <match-omap-name> ] [
<match-acl-name> ] [ <note-string> ] [ <pkt-len-list> ] [ <rtp-port-list> ] [ <roce-port-list> ] [ <prot> ] [
<input-iface-list> ] [ <exp-list> ] [ <cl-def> ] ] ] ] }
```

### Syntax Description

xxx	(Optional) xxx
yyy	(Optional) yyy
zzz	(Optional) zzz
show	Show running system information
class-map	Show class maps
type	(Optional) Type of the class-map
qos	(Optional) type qos
queuing	(Optional) type queuing
<i>omap-name</i>	(Optional) class map name
<i>omap-enum-name</i>	(Optional)
<i>default-omap-enum-name</i>	(Optional)
<i>omap-dce-name</i>	(Optional) Queuing class-map name
<i>omap-name-hque</i>	(Optional) Hierarchical class-map name
<i>color-map-enum-name</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_omap	(Optional) all omap xml sessions
<i>omap-key</i>	(Optional) Class-map name: xml key
<i>nq-omap-key</i>	(Optional) Class-map name nq: xml key
<i>nq-omap-name</i>	(Optional) Class-map xname
<i>protocol</i>	(Optional) protocol

<i>TABLE_match</i>	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
<i>cmap-name-out</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)
<i>any_or_all</i>	(Optional) Enter match-any or match-all
<i>id</i>	(Optional) Class-map ID
<i>desc</i>	(Optional) Description string
<i>nq-desc</i>	(Optional) Description xstring
<i>not</i>	(Optional) Negate this match result
<i>dscp-list</i>	(Optional) List of DSCP values
<i>precedence-list</i>	(Optional) List of precedence values
<i>cos-list</i>	(Optional) List of class-of-service values
<i>nq-cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>nq-qos-group-list</i>	(Optional) List of qos-group values
<i>discard-class-list</i>	(Optional) List of discard-class values
<i>vlan-list</i>	(Optional) List of vlan-ids
<i>match-cmap-name</i>	(Optional) class-map name
<i>match-acl-name</i>	(Optional) Match class-map name
<i>note-string</i>	(Optional) Placeholder string param to display any info in string format
<i>pkt-len-list</i>	(Optional) Packet length multi-range
<i>rtp-port-list</i>	(Optional) IP RTP UDP port multi-range
<i>roce-port-list</i>	(Optional) IP ROCE UDP port multi-range
<i>prot</i>	(Optional) Protocol
<i>input-iface-list</i>	(Optional) Input Interface multi-range
<i>exp-list</i>	(Optional) List of MPLS exp values
<i>cl-def</i>	(Optional) Match any criteria for class-default only

### Command Mode

- /exec

## show class-map type control-plane

```
show class-map type control-plane [ <imap-name> ] [ __readonly__ [ { TABLE_cmap <imap-key>
<imap-name-out> <opt_any_or_all> [ TABLE_match <match-key> [ access_grp <acc_grp_name> ] [ redirect
<opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] } ] ] ]
```

### Syntax Description

show	Show running system information
class-map	Show class maps
type	Type of the class-map
control-plane	This is for copp policy
<i>imap-name</i>	(Optional) Name of the class-map
<i>__readonly__</i>	(Optional)
TABLE_cmap	(Optional) all cmap xml sessions
<i>imap-name-out</i>	(Optional) Name of the class-map
<i>imap-key</i>	(Optional) Class-map name: xml key
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
access_grp	(Optional)
<i>acc_grp_name</i>	(Optional)
redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets

### Command Mode

- /exec

## show class-map type network-qos

```
show class-map type network-qos [ < cmap-name-nq > ] [ __readonly__ { [ < display-all > ] [ TABLE_ cmap
< cmap-key > < xmap-name > [ < desc > ] [ < cos-list > ] [ < qos-group-list > ] [ < protocol > ] ] } ]
```

### Syntax Description

show	Show running system information
class-map	Show class maps
type	Type of the class-map
<i>cmap-name-nq</i>	(Optional) Class-map name
network-qos	type network-qos
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all network-qos class-maps
TABLE_ cmap	(Optional) all network-qos cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>desc</i>	(Optional) Description string
<i>xmap-name</i>	(Optional) Class-map name
<i>protocol</i>	(Optional) protocol
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values

### Command Mode

- /exec

# show cli alias

```
show cli alias [ name <s0> ] [ __readonly__ { TABLE_cli_alias <alias> <name> } ]
```

## Syntax Description

show	Show running system information
cli	Show CLI information
alias	Display the alias configuration
name	(Optional) Display a specific alias
<i>s0</i>	(Optional) Specify the alias
<i>__readonly__</i>	(Optional)
TABLE_cli_alias	(Optional) cli alias table
<i>alias</i>	(Optional) alias
<i>name</i>	(Optional) name

## Command Mode

- /exec



# show cli dynamic-cmd

show cli dynamic-cmd

## Syntax Description

show	Show running system information
cli	CLI commands
dynamic-cmd	Display the list of dynamic commands(cli)

## Command Mode

- /exec

# show cli dynamic integers

```
show cli dynamic integers [ <name> ] [ __readonly__ TABLE_dynamic_integers <name-o> <min> <max> ]
```

## Syntax Description

show	Show running system information
cli	CLI commands
dynamic	Display current range of dynamic parameters
integers	Display current range of dynamic integer parameters
<i>name</i>	(Optional) name of the dynamic parameter
<i>__readonly__</i>	(Optional)
TABLE_dynamic_integers	(Optional)
<i>name-o</i>	(Optional)
<i>min</i>	(Optional)
<i>max</i>	(Optional)

## Command Mode

- /exec

# show cli dynamic strings

```
show cli dynamic strings [ <name> ] [ __readonly__ TABLE_dynamic_strings <name-o> <value> + ]
```

## Syntax Description

show	Show running system information
cli	CLI commands
dynamic	Display current range of dynamic parameters
strings	Display current range of dynamic string parameters
<i>name</i>	(Optional) name of the dynamic parameter
<i>__readonly__</i>	(Optional)
<i>TABLE_dynamic_strings</i>	(Optional)
<i>name-o</i>	(Optional)
<i>value</i>	(Optional)

## Command Mode

- /exec

# show cli history

show cli history [ this-mode-only | exec-mode | config-mode ] [ <count> | unformatted ] +

## Syntax Description

show	Show running system information
cli	debug cli
history	history of cli commands
<i>count</i>	(Optional) number of lines to display (from end)
unformatted	(Optional) display just the commands
this-mode-only	(Optional) display history from current mode only
exec-mode	(Optional) display history of exec commands only
config-mode	(Optional) display history of config commands only

## Command Mode

- /exec

# show cli interface table

show cli interface table

## Syntax Description

show	show
cli	cli
interface	interface
table	table

## Command Mode

- /exec

# show cli list

show cli list [ detail | recurse | <component> | <max-per-cmd> | has-xml-out ] +

## Syntax Description

show	Show running system information
cli	Show CLI information
list	show
<i>component</i>	(Optional) component
<i>max-per-cmd</i>	(Optional) max
has-xml-out	(Optional) show
recurse	(Optional) go
detail	(Optional) formats

## Command Mode

- /exec

# show cli syntax

```
show cli syntax [ long | recurse ] + [ has-xml-out | has-no-xml-out | is-data-modeled ] [ roles [ network-admin
| network-operator | <roles-mask> ] ]
```

## Syntax Description

show	Show running system information
cli	Show CLI information
syntax	show
long	(Optional) use
recurse	(Optional) also
has-xml-out	(Optional) show
has-no-xml-out	(Optional) show
is-data-modeled	(Optional) show
roles	(Optional) show
network-admin	(Optional) show
network-operator	(Optional) show
<i>roles-mask</i>	(Optional) show

## Command Mode

- /exec

# show cli variables

```
show cli variables [ __readonly__ <switchname> <timestamp> [ { TABLE_variable <key> <value> } ] [ {
TABLE_session_variable <key> <value> } ] ]
```

## Syntax Description

show	Show running system information
cli	Show CLI information
variables	Show CLI variables
__readonly__	(Optional)
<i>switchname</i>	(Optional) Switch Name
<i>timestamp</i>	(Optional) Timestamp
TABLE_variable	(Optional) Variable table
<i>key</i>	(Optional) key
<i>value</i>	(Optional) value
TABLE_session_variable	(Optional) Session variable table
<i>key</i>	(Optional) key
<i>value</i>	(Optional) value

## Command Mode

- /exec



# show clock

```
show clock [ detail ] [ __readonly__ { <simple_time> <time_source> [ <daylight_zone> <daylight_start_week>
<daylight_start_weekday> <daylight_start_month> <daylight_start_time> <daylight_end_week>
<daylight_end_weekday> <daylight_end_month> <daylight_end_time> <daylight_utc_min_offset> ] } ]
```

## Syntax Description

show	Show running system information
clock	Display current Date
detail	(Optional) Display current date and summertime configuration
__readonly__	(Optional)
<i>simple_time</i>	(Optional) simple clock format
<i>time_source</i>	(Optional) Time source
<i>daylight_zone</i>	(Optional) summer-time daylight zone
<i>daylight_start_week</i>	(Optional) daylight start week
<i>daylight_start_weekday</i>	(Optional) daylight start weekday
<i>daylight_start_month</i>	(Optional) daylight start month
<i>daylight_start_time</i>	(Optional) daylight start time
<i>daylight_end_week</i>	(Optional) daylight end week
<i>daylight_end_weekday</i>	(Optional) daylight end weekday
<i>daylight_end_month</i>	(Optional) daylight end month
<i>daylight_end_time</i>	(Optional) daylight end time
<i>daylight_utc_min_offset</i>	(Optional) daylight utc offset

## Command Mode

- /exec

# show config-profile

```
show config-profile [ name <all_conf_profile_name> ] [ __readonly__ TABLE_conf_profile_all
<conf_profile_name> { [ <conf_profile_desc> ] <conf_profile_cfg> + [ <conf_profile_applied> ] + [
<conf_profile_include> ] + } ]
```

## Syntax Description

show	Show running system information
config-profile	Show config-profiles
name	(Optional) config-profile name
<i>all_conf_profile_name</i>	(Optional) Enter the name of configuration profile
<i>__readonly__</i>	(Optional)
<i>TABLE_conf_profile_all</i>	(Optional)
<i>conf_profile_name</i>	(Optional)
<i>conf_profile_desc</i>	(Optional)
<i>conf_profile_cfg</i>	(Optional)
<i>conf_profile_applied</i>	(Optional)
<i>conf_profile_include</i>	(Optional)

## Command Mode

- /exec

## show config-profile applied

```
show config-profile { applied [ auto | manually ] | non-applied } [ match-name <profile_substring> ] [
__readonly__ [ <profiles> ] + ]
```

### Syntax Description

show	Show running system information
config-profile	Show config-profiles
applied	List of config-profiles that are applied
auto	(Optional) List of config-profiles that are applied via auto-config
manually	(Optional) List of all config-profiles which were applied directly from cli
non-applied	List of config-profiles that are not applied
match-name	(Optional) List of all config-profiles that have matching sub-string
__readonly__	(Optional)
<i>profiles</i>	(Optional)
<i>profile_substring</i>	(Optional) Enter a substring to match with config-profile name

### Command Mode

- /exec

## show config-replace log exec

show config-replace log { exec | verify } [ \_\_readonly\_\_ [ <log\_entry> + ] ]

### Syntax Description

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

### Command Mode

- /exec

## show config-replace status

```
show config-replace status [ __readonly__ <last_operation> [ <config_replace_type> ] [ <name> ] [
<start_time> ] [ <end_time> ] [ <operation_status> ] [ <commit_status> ] [ <commit_timeout_remaining> ]
]
```

### Syntax Description

show	Show running system information
config-replace	show config-replace
status	show status of last configure replace operation
<i>__readonly__</i>	(Optional) Read only
<i>last_operation</i>	(Optional) last operation
<i>config_replace_type</i>	(Optional) config-replace type
<i>name</i>	(Optional) name
<i>start_time</i>	(Optional) start time
<i>end_time</i>	(Optional) end time
<i>operation_status</i>	(Optional) operation status
<i>commit_status</i>	(Optional) Commit status
<i>commit_timeout_remaining</i>	(Optional) commit timeout remaining

### Command Mode

- /exec

## show config-template

```
show config-template [ [ <template-name> ] [ status [ { vrf <vrf-name> } ] ] ] [ __readonly__ { TABLE_profile
<name> <refcount> <type> [ TABLE_cfg <cfg> [ TABLE_status <vrfname> <status> ] } ] ]
```

### Syntax Description

show	Show running system information
config-template	config-template
<i>template-name</i>	(Optional) config-template name
status	(Optional) config-template status
vrf	(Optional) VRF referencing config-template
<i>vrf-name</i>	(Optional) config-template name
__readonly__	(Optional)
TABLE_profile	(Optional)
<i>name</i>	(Optional) config-template name
<i>refcount</i>	(Optional) Ref count of VRFs using this config-template
<i>type</i>	(Optional) config-template type
TABLE_cfg	(Optional)
<i>cfg</i>	(Optional) profile config
TABLE_status	(Optional)
<i>vrfname</i>	(Optional) profile config
<i>status</i>	(Optional) profile status

### Command Mode

- /exec

# show configuration session

```
show configuration session <s3> [ __readonly__ <ssn-name> [ TABLE_session_details [ <ssn-cmd-num> ]
[ <command> ] ] ]
```

## Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
<i>s3</i>	Shows configuration session given a name
<i>__readonly__</i>	(Optional) Read only
<i>ssn-name</i>	(Optional)
TABLE_session_details	(Optional) Show session details for given name
<i>ssn-cmd-num</i>	(Optional)
<i>command</i>	(Optional)

## Command Mode

- /exec

# show configuration session

```
show configuration session [ __readonly__ [ TABLE_session_all <ssn-name> [ TABLE_session_all_cmd [
<ssn-cmd-num> ] [ <command> ] ] ] <activesesscnt> ]
```

## Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
__readonly__	(Optional) Read only
TABLE_session_all	(Optional) Show session table
<i>ssn-name</i>	(Optional)
TABLE_session_all_cmd	(Optional) Show session related commands
<i>ssn-cmd-num</i>	(Optional)
<i>command</i>	(Optional)
<i>activesesscnt</i>	(Optional) Number of active configuration sessions

## Command Mode

- /exec



# show configuration session global-info

```
show configuration session global-info [ __readonly__ <max-ssns> <max-cmds> <curr-num-ssns>
<curr-num-cmds> ]
```

## Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
global-info	Show configuration sessions global-info
__readonly__	(Optional) Read only
<i>max-ssns</i>	(Optional)
<i>max-cmds</i>	(Optional)
<i>curr-num-ssns</i>	(Optional)
<i>curr-num-cmds</i>	(Optional)

## Command Mode

- /exec

## show configuration session status

```
show configuration session status [ <s3> ] [ __readonly__ [ TABLE_session_status <ssn-name> <last-action>
<ac-status> <ac-reason> <ac-tstamp> [ <failed-cmd-num> ] [ <failed-cmd> ] [ <last-vfy-cmd-num> ] [
<last-vfy-cmd> ] [ <last-vfy-tstamp> ] [ <rollback-status> ] ] ]
```

### Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
status	Show configuration session-mgr status
s3	(Optional) Shows configuration session status given a name
__readonly__	(Optional) Read only
TABLE_session_status	(Optional) Show session status table
ssn-name	(Optional)
last-action	(Optional) Last Action
ac-status	(Optional) Last Action Status
ac-reason	(Optional) Last Action Reason
ac-tstamp	(Optional) Last Action Timestamp
failed-cmd-num	(Optional) Failed Command Number
failed-cmd	(Optional) Failed Command
last-vfy-cmd-num	(Optional) Last Verified Command Number
last-vfy-cmd	(Optional) Last Verified Command
last-vfy-tstamp	(Optional) Last Verified Command Timestamp
rollback-status	(Optional) Rollback Status

### Command Mode

- /exec

# show configuration session summary

```
show configuration session summary [ __readonly__ [ TABLE_session_summary <ssn-name> <username>
<tstamp> ] [ <activesesscnt> ] ]
```

## Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
summary	Show summary of the active configuration sessions
__readonly__	(Optional) Read only
TABLE_session_summary	(Optional) Show session summary table
<i>ssn-name</i>	(Optional)
<i>username</i>	(Optional) Session Owner
<i>tstamp</i>	(Optional) Creation Time
<i>activesesscnt</i>	(Optional) Number of active configuration sessions

## Command Mode

- /exec

## show configuration session vsh

```
show configuration session <s3> vsh [ __readonly__ <ssn-name> [ TABLE_session_details_vsh [
<ssn-cmd-num> ] [ <command> ] ] ]
```

### Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
s3	Shows configuration session given a name
vsh	
__readonly__	(Optional) Read only
TABLE_session_details_vsh	(Optional) Show session details for given name on vsh
ssn-name	(Optional)
ssn-cmd-num	(Optional)
command	(Optional)

### Command Mode

- /exec

# show consistency-checker copp

show consistency-checker copp

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
copp	Verify copp programming from software context

## Command Mode

- /exec

# show consistency-checker dme interfaces

show consistency-checker dme interfaces

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
dme	DME (ObjectStore)
interfaces	interfaces oper data

## Command Mode

- /exec

# show consistency-checker egress-xlate private-vlan

show consistency-checker egress-xlate private-vlan <vlan>

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
egress-xlate	Check PVLAN egress-xlate
private-vlan	Verifies private-vlan egress-xlate in the hardware
<i>vlan</i>	Enter private-vlan id

## Command Mode

- /exec

## show consistency-checker forwarding ipv6

```
show consistency-checker forwarding ipv6 [ unicast ] [ suppress-transient ] [ vrf { <vrf-name> | all_vrfs } ]
[ module { <module> | all_modules } ] [ __readonly__ [ <err_str> ] [ <cc_header> ] [ <table_id> ] [ <slot_id>
] [ <exec_time> ] [ <elapsed_time> ] [ <inconsis_adjts> ] [ TABLE_inconsistency_adjts { <idipv6> <slotipv6>
] [ <unitipv6> ] <vrfipv6> [ <ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [
<inconsis_routes> ] [ TABLE_inconsistency_routes { <idipv6> <slotipv6> [ <unitipv6> ] <vrfipv6> [
<ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [ <run_status> ] ]
```

### Syntax Description

show	show
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
ipv6	ipv6
unicast	(Optional) unicast
suppress-transient	(Optional) Suppress Transient state
vrf	(Optional) check routes for a specific VRF
<i>vrf-name</i>	(Optional) VRF name
module	(Optional) check routes for a specific module
<i>module</i>	(Optional) module number
all_modules	(Optional) all module's
all_vrfs	(Optional) all vrf's
<i>__readonly__</i>	(Optional)
<i>err_str</i>	(Optional)
<i>cc_header</i>	(Optional)
<i>table_id</i>	(Optional)
<i>slot_id</i>	(Optional)
<i>exec_time</i>	(Optional)
<i>elapsed_time</i>	(Optional)
<i>inconsis_adjts</i>	(Optional)
TABLE_inconsistency_adjts	(Optional)
<i>idipv6</i>	(Optional)



<i>slotipv6</i>	(Optional)
<i>unitipv6</i>	(Optional)
<i>vripv6</i>	(Optional)
<i>interfaceipv6</i>	(Optional)
<i>reasonipv6</i>	(Optional)
<i>inconsis_routes</i>	(Optional)
TABLE_inconsistency_routes	(Optional)
<i>idipv6</i>	(Optional)
<i>slotipv6</i>	(Optional)
<i>unitipv6</i>	(Optional)
<i>vripv6</i>	(Optional)
<i>interfaceipv6</i>	(Optional)
<i>reasonipv6</i>	(Optional)
<i>run_status</i>	(Optional)

**Command Mode**

- /exec

# show consistency-checker forwarding show forwarding inconsistency

```
show consistency-checker forwarding [ ip | ipv4 ] [ unicast ] [ suppress-transient ] [ vrf { <vrf-name> | all_vrfs
} ] [ module { <module> | all_modules } ] | show forwarding [ ip | ipv4 ] [ unicast ] inconsistency [
suppress-transient ] [ vrf { <vrf-name> | all_vrfs } ] [ module { <module> | all_modules } ] [ __readonly__
TABLE_inconsistency <id> <slot> [ <unit> ] <vrf> [ <ipaddr> ] [ <ipprefix> ] [ <interface> ] <reason> ]
```

## Syntax Description

show	show
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
inconsistency	route inconsistency check
ip	(Optional) ipv4
ipv4	(Optional) ipv4
unicast	(Optional) unicast
suppress-transient	(Optional) Suppress Transient state
vrf	(Optional) check routes for a specific VRF
<i>vrf-name</i>	(Optional) VRF name
module	(Optional) check routes for a specific module
<i>module</i>	(Optional) module number
all_modules	(Optional) all module's
all_vrfs	(Optional) all vrf's
__readonly__	(Optional)
TABLE_inconsistency	(Optional)
<i>id</i>	(Optional)
<i>slot</i>	(Optional)
<i>unit</i>	(Optional)
<i>vrf</i>	(Optional)
<i>ipaddr</i>	(Optional)
<i>ipprefix</i>	(Optional)

<i>interface</i>	(Optional)
<i>reason</i>	(Optional)

**Command Mode**

- /exec

## show consistency-checker forwarding single-route ipv4 vrf

```
show consistency-checker forwarding single-route { ipv4 | ipv6 } <ip-prefix> vrf <vrf-name> [ brief | detail ]
```

### Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
single-route	Run the consistency checker for a single route
ipv4	IPv4 address
ipv6	IPv6 address
<i>ip-prefix</i>	Specify an IP prefix/mask
vrf	check routes for a specific VRF
<i>vrf-name</i>	vrf name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

### Command Mode

- /exec

# show consistency-checker kim

show consistency-checker kim

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
kim	Kernel Interface

## Command Mode

- /exec

# show consistency-checker kim interface

show consistency-checker kim { interface <ifid> } [ brief | detail ]

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
kim	kernel interface
interface	Limit display to interface
<i>ifid</i>	Interface
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

## Command Mode

- /exec

## show consistency-checker l2-tahoe module

show consistency-checker l2-tahoe module <module> [ unit <unit> ]

### Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2-tahoe	Verify l2 mac programming in the hardware
module	Module to run the consistency-checker on
<i>module</i>	Enter module number
unit	(Optional) Unit to run the consistency checker on
<i>unit</i>	(Optional) Enter unit number

### Command Mode

- /exec

## show consistency-checker l2-tahoe switchport interface

show consistency-checker l2-tahoe switchport interface <if\_name> [ brief | detail ]

### Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2-tahoe	Verify l2 mac programming in the hardware
switchport	Switchport Interface
interface	interface
<i>if_name</i>	Physical or Logical interface
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

### Command Mode

- /exec



## show consistency-checker l2 multicast group source vlan

```
show consistency-checker l2 multicast group <grp-address> source <src-address> vlan <vlan-id> [ debug-logs ] [ brief | detail ]
```

### Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2	Verify l2 mac programming in the hardware
multicast	multicast related information
group	Do consistency check for group
<i>grp-address</i>	group IP address
source	Do consistency check for source
<i>src-address</i>	source IP address
vlan	Do consistency check for vlan
<i>vlan-id</i>	vlan number
debug-logs	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

### Command Mode

- /exec

## show consistency-checker l3-interface module

show consistency-checker l3-interface { module <moduleid> | interface <ifid> } [ brief | detail ]

### Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l3-interface	Compares software and hardware properties of L3 interfaces
module	Limit display to interfaces on module
<i>moduleid</i>	Module number
interface	Limit display to interface
<i>ifid</i>	Interface name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

### Command Mode

- /exec

## show consistency-checker l3 multicast source vrf

```
show consistency-checker l3 multicast [ group { <grp-address> [ <mask> ] | <gprefix> } ] source <src-address>
vrf <vrf-string> [ debug-logs ] [ brief | detail ]
```

### Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l3	l3 consistency
multicast	multicast related information
group	(Optional) Do consistency check for group
<i>grp-address</i>	(Optional) group IP address
<i>mask</i>	(Optional) mask for group ip address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
source	Do consistency check for source
<i>src-address</i>	source IP address
vrf	Do consistency check for vrf
<i>vrf-string</i>	Vrf string
debug-logs	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

### Command Mode

- /exec

# show consistency-checker link-state fabric-ieth

show consistency-checker link-state fabric-ieth { [ module <module> ] } [ brief | detail ]

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
link-state	Compares software and hardware link state of interfaces
fabric-ieth	Internal Fabric ports
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

## Command Mode

- /exec

# show consistency-checker link-state module

show consistency-checker link-state { module <module> | interface <ifid> } [ brief | detail ]

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
link-state	Compares software and hardware link state of interfaces
module	Limit display to interfaces on module
<i>module</i>	Module number
interface	Limit display to interface
<i>ifid</i>	Interface name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

## Command Mode

- /exec

# show consistency-checker membership port-channels

show consistency-checker membership port-channels [ interface <ch-id> ] [ brief | detail ]

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
membership	Check various memberships
port-channels	Verifies port channel membership in the hardware
interface	(Optional) Port-channel number
<i>ch-id</i>	(Optional) Port-Channel name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

## Command Mode

- /exec

## show consistency-checker membership vlan

```
show consistency-checker membership vlan <vlanid> [ private-vlan [ interface [ <int-id> | <ch-id> ] ] ] [ native-vlan ] [ brief | detail ]
```

### Syntax Description

show	Show running system information
vlan	Verifies vlan membership in the hardware
<i>vlanid</i>	Enter vlan id
consistency-checker	Consistency Checker
membership	Check various memberships
private-vlan	(Optional) Check private-vlan primary vlan
interface	(Optional) Interface
<i>int-id</i>	(Optional) Interface name
<i>ch-id</i>	(Optional) Port-Channel name
native-vlan	(Optional) Check for native vlans
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

### Command Mode

- /exec

# show consistency-checker port-state

show consistency-checker port-state [ { module <module> | interface <ifid> } ] [ brief | detail ]

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
port-state	Validates SI, MTU and IPG Settings
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
interface	(Optional) Limit display to interface
<i>ifid</i>	(Optional) Interface name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

## Command Mode

- /exec



## show consistency-checker port-state fabric-ieth

```
show consistency-checker port-state fabric-ieth [ module <module> [ ieth-port <ieth-port> ] ] [ brief | detail ]
```

### Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
port-state	Validates SI, FEC and MTU Settings
fabric-ieth	Internal Fabric ports
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
ieth-port	(Optional) Enter ieth-port number
<i>ieth-port</i>	(Optional) Enter ieth-port number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

### Command Mode

- /exec

# show consistency-checker racl module

show consistency-checker racl module <module>

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
module	Limit display to L3 interfaces on this module
<i>module</i>	Enter module number

## Command Mode

- /exec

# show consistency-checker racl port-channels

show consistency-checker racl port-channels [ interface <ch-id> ]

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
port-channels	Verifies port channel racl programming in the hardware
interface	(Optional) Port-channel number
<i>ch-id</i>	(Optional) Port-Channel name

## Command Mode

- /exec

# show consistency-checker racl svi interface

show consistency-checker racl svi interface <vlan-id>

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
svi	Verifies SVI racl programming in the hardware
interface	SVI number
<i>vlan-id</i>	SVI VLAN

## Command Mode

- /exec

# show consistency-checker stp-state vlan

show consistency-checker stp-state vlan <vlan> [ brief | detail ]

## Syntax Description

show	Show running system information
vlan	Verifies spanning tree state in the hardware for all interfaces in the vlan
<i>vlan</i>	Enter vlan id
consistency-checker	Consistency Checker
stp-state	Verify spanning tree state in the hardware
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

## Command Mode

- /exec

# show consistency-checker vxlan config-check

show consistency-checker vxlan config-check [ verbose-mode ]

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
config-check	Check the inconsistencies in the config
verbose-mode	(Optional) config-check detail

## Command Mode

- /exec

# show consistency-checker vxlan pv

show consistency-checker vxlan pv

## Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
pv	pv consistency checker

## Command Mode

- /exec

# show consistency-checker vxlan vlan

show consistency-checker vxlan vlan { <vlanid> | all } [ verbose-mode ]

## Syntax Description

show	Show running system information
vxlan	VxLAN consistency checker
vlan	Verifies flood list programming for vxlan vlans
consistency-checker	Consistency Checker
<i>vlanid</i>	Enter vlan id
all	Check CC for all vxlans
verbose-mode	(Optional) detailed CC output

## Command Mode

- /exec



# show controller accounting log

show controller <ctrl-id> accounting log

## Syntax Description

show	Show running system information
controller	Controller command
<i>ctrl-id</i>	Controller id value
accounting	Accounting
log	Show log information

## Command Mode

- /exec

## show copp status

```
show copp status [ __readonly__ { last_config_operation <last_cfg_oper> } { last_config_operation_time
<last_cfg_oper_time> } { last_config_operation_status <last_cfg_oper_status> } [
last_config_operation_error_time <last_cfg_oper_error_time> ] [ last_config_operation_error
<last_cfg_oper_error> ] { service_policy <srv_policy> } ]
```

### Syntax Description

show	Show running system information
copp	Control-Plane Policing
status	Show the internal status of CoPP
<i>__readonly__</i>	(Optional)
last_config_operation	(Optional) last config operation
<i>last_cfg_oper</i>	(Optional) last config operation
last_config_operation_time	(Optional) timestamp of last config operation
<i>last_cfg_oper_time</i>	(Optional) timestamp of last config operation
last_config_operation_status	(Optional) status of last config operation
<i>last_cfg_oper_status</i>	(Optional) status of last config operation
last_config_operation_error_time	(Optional) timestamp of last config operation's error
<i>last_cfg_oper_error_time</i>	(Optional) timestamp of last config operation's error
last_config_operation_error	(Optional) last config operation's error
<i>last_cfg_oper_error</i>	(Optional) last config operation's error
service_policy	(Optional) policy-map attached to control-plane
<i>srv_policy</i>	(Optional) policy-map attached to control-plane

### Command Mode

- /exec

# show copyright

show copyright [ *\_\_readonly\_\_* { <content> } ]

## Syntax Description

show	Show running system information
copyright	Copyright information
<i>__readonly__</i>	(Optional)
<i>content</i>	(Optional) Copyright information

## Command Mode

- /exec

# show cores

```
show cores [ vdc-all | { vdc [ <e-vdc2> | <vdc-id> ] } ] [ __readonly__ { [ TABLE_cores <vdc_id>
<module_id> <instance> <process_name> <pid> <sys_time> ] } ]
```

## Syntax Description

show	Show running system information
cores	show all core dumps for the current vdc
vdc-all	(Optional) show core dumps from all vdes
vdc	(Optional) show all core dumps for the vdc
__readonly__	(Optional)
TABLE_cores	(Optional)
<i>vdc_id</i>	(Optional) vdc id
<i>module_id</i>	(Optional) module id
<i>instance</i>	(Optional) instance number
<i>process_name</i>	(Optional) name of the process
<i>pid</i>	(Optional) process id
<i>sys_time</i>	(Optional) core generate time
<i>e-vdc2</i>	(Optional) Enter VDC <vdc-id>
<i>vdc-id</i>	(Optional) vdc number

## Command Mode

- /exec

## show crypto ca certificates

```
show crypto ca certificates <s0> [ __readonly__ { Trustpoint <trustpoint> } [ { Certificate <certificate> } ]
[ { TABLE_ca_cert_chains <index> <ca_certificate> } ] ]
```

### Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
certificates	show various certificates
<i>s0</i>	trustpoint label
<i>__readonly__</i>	(Optional)
Trustpoint	(Optional) Trustpoint
<i>trustpoint</i>	(Optional) Trustpoint
Certificate	(Optional) Certificate
<i>certificate</i>	(Optional) Certificate
TABLE_ca_cert_chains	(Optional) Table of CA certificates in chain
<i>index</i>	(Optional) CA Certificate Index
<i>ca_certificate</i>	(Optional) CA certificate

### Command Mode

- /exec

## show crypto ca certificates

```
show crypto ca certificates [ __readonly__ [ { TABLE_ca_certificates <trustpoint> [ <certificate> ] [ {
TABLE_ca_cert_chains <index> <ca_certificate> } ] } ] ]
```

### Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
certificates	show various certificates
<i>__readonly__</i>	(Optional)
<i>TABLE_ca_certificates</i>	(Optional) Table of CA certificates
<i>trustpoint</i>	(Optional) Trustpoint name
<i>certificate</i>	(Optional) Certificate
<i>TABLE_ca_cert_chains</i>	(Optional) Table of CA certificates in chain
<i>index</i>	(Optional) CA Certificate Index
<i>ca_certificate</i>	(Optional) CA certificate

### Command Mode

- /exec

# show crypto ca certstore

```
show crypto ca certstore [ __readonly__ { certstore_lookup <lookup_type> } ]
```

## Syntax Description

show	Show running system information
crypto	Show crypto configuration
ca	show crypto ca configuration
certstore	Show the configured certstore
__readonly__	(Optional)
certstore_lookup	(Optional) Certificate store lookup
<i>lookup_type</i>	(Optional) Lookup type

## Command Mode

- /exec

# show crypto ca crl

show crypto ca crl <s0> [ \_\_readonly\_\_ { Trustpoint <trustpoint> } [ { CRL <crl> } ] ]

## Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
crl	show CRL
s0	trustpoint label
__readonly__	(Optional)
Trustpoint	(Optional) Trustpoint
trustpoint	(Optional) Trustpoint
CRL	(Optional) Certificate Revocation List
crl	(Optional) Certificate Revocation List

## Command Mode

- /exec



## show crypto ca remote-certstore

```
show crypto ca remote-certstore [ __readonly__ { remote_cert_store <rem_cert_store> } [ { crl_timer <crltimer>
} { ldap_server_group <ldap_server_grp> } ] ]
```

### Syntax Description

show	Show running system information
crypto	Show crypto configuration
ca	show crypto ca configuration
remote-certstore	Show remote certstore configuration
__readonly__	(Optional)
remote_cert_store	(Optional) Remote cert store
<i>rem_cert_store</i>	(Optional) Remote certificate store
crl_timer	(Optional) CRL timer
<i>crltimer</i>	(Optional) CRL timer
ldap_server_group	(Optional) LDAP Server Group
<i>ldap_server_grp</i>	(Optional) LDAP Server Group

### Command Mode

- /exec

## show crypto ca trustpoints

```
show crypto ca trustpoints [ __readonly__ [ { TABLE_ca_truspoints <trustpoint> <key-pair> [ {
TABLE_revocation_methods <revocation-method> } ] [ <ocsp-url> ] } ] ]
```

### Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
trustpoints	show trustpoint configuration
<i>__readonly__</i>	(Optional)
<i>trustpoint</i>	(Optional) Trustpoint
<i>key-pair</i>	(Optional) Key pair
TABLE_revocation_methods	(Optional) Table of revocation methods
<i>revocation-method</i>	(Optional) Revocation mehtod
<i>ocsp-url</i>	(Optional) OCSP URL
TABLE_ca_truspoints	(Optional) Table of CA trustpoints

### Command Mode

- /exec

# show crypto ca trustpool

```
show crypto ca trustpool [ __readonly__ [ { TABLE_ca_trustpool <serial-number> <subject> <issued-by>
<validity-start> <validity-end> } ] ]
```

## Syntax Description

show	Show running system information
crypto	show crypto information
ca	show trustpool data
trustpool	trustpool contents
<i>__readonly__</i>	(Optional)
<i>TABLE_ca_trustpool</i>	(Optional) Table of CA trustpool
<i>serial-number</i>	(Optional) Serial number
<i>subject</i>	(Optional) subject
<i>issued-by</i>	(Optional) Issued by
<i>validity-start</i>	(Optional) validity start date
<i>validity-end</i>	(Optional) validity end date

## Command Mode

- /exec

## show crypto ca trustpool last download status

```
show crypto ca trustpool last download status [ __readonly__ [ http_url <http_url> ] [ download_time
<download_time> ] [ trustpool_download_status <status> ] [ download_failure <reason> ] ]
```

### Syntax Description

show	Show running system information
crypto	show crypto information
ca	show trustpool data
trustpool	trustpool data
last	last trustpool download status
download	download of trustpool
status	download status
<i>__readonly__</i>	(Optional)
http_url	(Optional) http url configured
<i>http_url</i>	(Optional) HTTP url
download_time	(Optional) Download time
<i>download_time</i>	(Optional) Download time
trustpool_download_status	(Optional) Status of trustpool policy download
<i>status</i>	(Optional) Download status
download_failure	(Optional) Download failure
<i>reason</i>	(Optional) Download failure reason

### Command Mode

- /exec

# show crypto ca trustpool policy

```
show crypto ca trustpool policy [ __readonly__ [ http_url <http_url> ] [ config_vrf [ <config_vrf> ] [ <src_intf>
] ] [ proxy_server [ <proxy_server> ] [ <proxy_server_port> ] ] ]
```

## Syntax Description

show	Show running system information
crypto	show crypto information
ca	show Certificate authority related config
trustpool	show trustpool policy
policy	trustpool configuration
<i>__readonly__</i>	(Optional)
http_url	(Optional) http url configured
<i>http_url</i>	(Optional) HTTP url
config_vrf	(Optional) Configured vrf
<i>config_vrf</i>	(Optional) vrf configured
<i>src_intf</i>	(Optional) source interface for vrf
proxy_server	(Optional) Configured proxy server
<i>proxy_server</i>	(Optional) proxy server
<i>proxy_server_port</i>	(Optional) proxy server port

## Command Mode

- /exec

# show crypto certificatemap

```
show crypto certificatemap [ __readonly__ [ { TABLE_certmap <map_name> <subject_name>
<alternate_email> <alternate_upn> } ] ]
```

## Syntax Description

show	Show running system information
crypto	show crypto configuration
certificatemap	show certificatemap filters
<i>__readonly__</i>	(Optional)
<i>TABLE_certmap</i>	(Optional) Table of Certificate Map
<i>map_name</i>	(Optional) Map name
<i>subject_name</i>	(Optional) Subject name
<i>alternate_email</i>	(Optional) Alternate Email
<i>alternate_upn</i>	(Optional) Alternate UPN

## Command Mode

- /exec

## show crypto key mypubkey rsa

```
show crypto key mypubkey rsa [ __readonly__ [ { TABLE_rsa_keys <key_label> <key_size> <exportable>
<err_string> } ] ]
```

### Syntax Description

show	Show running system information
crypto	show crypto configuration
key	show key configuration
mypubkey	show my public keys configuration
rsa	show my rsa public keys configuration
<i>__readonly__</i>	(Optional)
<i>TABLE_rsa_keys</i>	(Optional) Table of RSA keys
<i>key_label</i>	(Optional) Key Label
<i>key_size</i>	(Optional) Key size
<i>exportable</i>	(Optional) Exportable
<i>err_string</i>	(Optional) Error String

### Command Mode

- /exec

## show crypto ssh-auth-map

```
show crypto ssh-auth-map [ __readonly__ [ { TABLE_ssh_auth_map <issuer_name> <map1> [ <map2> ] } ] ]
```

### Syntax Description

show	Show running system information
crypto	show crypto configuration
ssh-auth-map	show mapping filters applied for ssh authentication
__readonly__	(Optional)
TABLE_ssh_auth_map	(Optional) Table of SSH Auth MAP
<i>issuer_name</i>	(Optional) Issuer Name
<i>map1</i>	(Optional) Map 1
<i>map2</i>	(Optional) Map 2

### Command Mode

- /exec



# show cts

show cts [ *\_\_readonly\_\_* <device-id> <cache\_en> <num-dot1x> <num-man> <sgt> ]

## Syntax Description

<i>cts</i>	Show CTS global configuration
<i>__readonly__</i>	(Optional)
<i>device-id</i>	(Optional) name
<i>cache_en</i>	(Optional) enable/disable
<i>num-dot1x</i>	(Optional) number of interfaces in dot1x mode
<i>num-man</i>	(Optional) number of interfaces in manual mode
<i>sgt</i>	(Optional)

## Command Mode

- /exec

# show current

show current

## Syntax Description

show	Display region configurations
current	Display mst configuration currently used

## Command Mode

- /exec/configure/spanning-tree/mst/configuration



## D Show Commands

---

- [show diagnostic bootup level](#), on page 306
- [show diagnostic description module test all](#), on page 307
- [show diagnostic events](#), on page 308
- [show diagnostic result module](#), on page 309
- [show diagnostic result module all](#), on page 311
- [show diff rollback-patch](#), on page 313
- [show dot1q-tunnel](#), on page 314
- [show dot1q-tunnel interface](#), on page 315
- [show dot1x](#), on page 316
- [show dot1x all](#), on page 317
- [show dot1x all details](#), on page 319
- [show dot1x all statistics](#), on page 322
- [show dot1x all summary](#), on page 324
- [show dot1x interface](#), on page 325
- [show dot1x interface client statistics](#), on page 329
- [show dot1x interface client statistics address](#), on page 331

# show diagnostic bootup level

show diagnostic bootup level [ \_\_readonly\_\_ <bootup\_level> ]

## Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
bootup	Show diagnostic bootup information
level	Show diagnostic bootup level information
__readonly__	(Optional)
<i>bootup_level</i>	(Optional) Bootup level

## Command Mode

- /exec

# show diagnostic description module test all

```
show diagnostic description module <module> test { all | <name> | <test-id> } [ __readonly__ { TABLE_desc
<testname> <testdesc> } ]
```

## Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
description	Show diagnostic test desc
module	Module keyword
<i>module</i>	Module Number
test	Diagnostic test selection
all	Select all test ID
<i>name</i>	Test name
<i>test-id</i>	
__readonly__	(Optional)
TABLE_desc	(Optional) Table of test description
<i>testname</i>	(Optional) Test name
<i>testdesc</i>	(Optional) Description of the test

## Command Mode

- /exec

## show diagnostic events

```
show diagnostic events [ error | info ] [ __readonly__ { TABLE_events <event_text> } ]
```

### Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
events	Diagnostic events
error	(Optional) Error event-type
info	(Optional) Information event-type
__readonly__	(Optional)
TABLE_events	(Optional) list of events logged
<i>event_text</i>	(Optional) Text of one event

### Command Mode

- /exec



<i>packet_loss</i>	(Optional) Packet lost
TABLE_Test	(Optional) Table of tests in module
<i>test_id</i>	(Optional) Test id of tests
<i>testname</i>	(Optional) Test name
<i>testresult</i>	(Optional) Test Results
<i>passed_ports</i>	(Optional) List passed ports
<i>failed_ports</i>	(Optional) List failed ports
<i>incomplete_ports</i>	(Optional) List of Incompletely tested ports
<i>untested_ports</i>	(Optional) List of untested ports
<i>aborted_ports</i>	(Optional) List of aborted ports
<i>err_disabled_ports</i>	(Optional) List error disabled ports
<i>err_code</i>	(Optional) Error code
<i>total_run_count</i>	(Optional) Total run count
<i>last_execution_time</i>	(Optional) Last execution time
<i>first_failure_time</i>	(Optional) First test failure time
<i>last_failure_time</i>	(Optional) Last test failure time
<i>last_pass_time</i>	(Optional) Last test pass time
<i>total_fail_count</i>	(Optional) Total fail count
<i>consecutive_fail_count</i>	(Optional) Consecutive failure count
<i>last_fail_reason</i>	(Optional) Last failure reason
<i>next_execution_time</i>	(Optional) Next test execution time

### Command Mode

- /exec



# show diagnostic result module all

```
show diagnostic result module all [ detail ] [ __readonly__ { TABLE_Module <module_id> <curr_diag_level>
<module_name> [ <bootup_diag_level> ] { TABLE_Test <test_id> <testname> [ <testresult> ] [ {
<passed_ports> <failed_ports> <incomplete_ports> <untested_ports> <aborted_ports> <err_disabled_ports>
} ] [ { <err_code> <total_run_count> <last_execution_time> <first_failure_time> <last_failure_time>
<last_pass_time> <total_fail_count> <consecutive_fail_count> <last_fail_reason> <next_execution_time>
} ] } ] }
```

## Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
result	Show diagnostic test result
module	Module keyword
all	Select all test ID
detail	(Optional) Detailed result
__readonly__	(Optional)
TABLE_Module	(Optional) Table of modules
<i>module_id</i>	(Optional) Module ID
<i>curr_diag_level</i>	(Optional) Current diag level
<i>module_name</i>	(Optional) Module name
<i>bootup_diag_level</i>	(Optional) Diagnostic level at bootup
TABLE_Test	(Optional) Table of tests in module
<i>test_id</i>	(Optional) Test id of tests
<i>testname</i>	(Optional) Test name
<i>testresult</i>	(Optional) Test Results
<i>passed_ports</i>	(Optional) List passed ports
<i>failed_ports</i>	(Optional) List failed ports
<i>incomplete_ports</i>	(Optional) List of Imcompletly tested ports
<i>untested_ports</i>	(Optional) List of untested ports
<i>aborted_ports</i>	(Optional) List of aborted ports
<i>err_disabled_ports</i>	(Optional) List error disabled ports

<i>err_code</i>	(Optional) Error code
<i>total_run_count</i>	(Optional) Total run count
<i>last_execution_time</i>	(Optional) Last execution time
<i>first_failure_time</i>	(Optional) First test failure time
<i>last_failure_time</i>	(Optional) Last test failure time
<i>last_pass_time</i>	(Optional) Last test pass time
<i>total_fail_count</i>	(Optional) Total fail count
<i>consecutive_fail_count</i>	(Optional) Consecutive failure count
<i>last_fail_reason</i>	(Optional) Last failure reason
<i>next_execution_time</i>	(Optional) Next test execution time

**Command Mode**

- /exec

# show diff rollback-patch

```
show diff rollback-patch { src-checkpoint <chkpoint_name> | src-running-cfg | src-startup-cfg | src-file
<srcfile_uri> } { dst-checkpoint <chkpoint_name> | dst-running-cfg | dst-startup-cfg | dst-file <dstfile_uri>
} [ __readonly__ [ <patch_entry> ] + ]
```

## Syntax Description

show	Show running system information
diff	Show diff between configuration files or checkpoints
rollback-patch	Show rollback patch between configuration files or checkpoints
src-checkpoint	Use checkpoint as source configuration
<i>chkpoint_name</i>	Checkpoint name
src-running-cfg	Use running configuration as source
src-startup-cfg	Use startup configuration as source
src-file	Src Checkpoint file
<i>srcfile_uri</i>	Src Checkpoint file path
dst-checkpoint	Use checkpoint as destination configuration
<i>chkpoint_name</i>	Checkpoint name
dst-running-cfg	Use running configuration as destination
dst-startup-cfg	Use startup configuration as destination
dst-file	Dst Checkpoint file
<i>dstfile_uri</i>	Src Checkpoint file path
<i>__readonly__</i>	(Optional) Read only
<i>patch_entry</i>	(Optional) rollback patch entry

## Command Mode

- /exec

# show dot1q-tunnel

show dot1q-tunnel [ \_\_readonly\_\_ TABLE\_interface <interface> ]

## Syntax Description

show	Show running system information
dot1q-tunnel	Show if port mode is dot1q-tunnel
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface

## Command Mode

- /exec

## show dot1q-tunnel interface

```
show dot1q-tunnel interface <ifid_eth_dot1q_tunnel> [ __readonly__ TABLE_interface <interface> ]
```

### Syntax Description

show	Show running system information
dot1q-tunnel	Show if port mode is dot1q-tunnel
interface	Show interface status and information
<i>ifid_eth_dot1q_tunnel</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface

### Command Mode

- /exec

# show dot1x

```
show dot1x [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> ]
```

## Syntax Description

<code>dot1x</code>	dot1x configuration commands
<code>__readonly__</code>	(Optional)
<code>sys_auth_ctrl</code>	(Optional) show system auth control
<code>proto_ver</code>	(Optional) show protocol version
<code>mac_move</code>	(Optional) show mac move

## Command Mode

- /exec

## show dot1x all

```
show dot1x all [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> TABLE_all <if_index>
TABLE_allpae <pae_type> [ <port_control> ] [ <host_mode> ] [ <quiet_period> ] [ <inactivity_period> ] [
<tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ] [ <supp_timeout> ] [ <server_timeout> ] [
<reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [ <mac_auth_bypass> ] [ <start_period> ] [
<auth_period> ] [ <held_period> ] [ <max_start> ] ]
```

### Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
<i>__readonly__</i>	(Optional)
TABLE_all	(Optional)
TABLE_allpae	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>sys_auth_ctrl</i>	(Optional) Show System Auth Control
<i>proto_ver</i>	(Optional) Show Protocol Version
<i>mac_move</i>	(Optional) Show Mac Move
<i>pae_type</i>	(Optional) Show PAE Type
<i>port_control</i>	(Optional) Show Port Control
<i>host_mode</i>	(Optional) Show Host Mode
<i>reauth</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period</i>	(Optional) Show Quiet Period
<i>inactivity_period</i>	(Optional) Show Inactivity Period
<i>server_timeout</i>	(Optional) Show Server Timeout
<i>supp_timeout</i>	(Optional) Show Supp Timeout
<i>reauth_period</i>	(Optional) Show Reauth Period
<i>reauth_max</i>	(Optional) Show Reauth Max
<i>max_req</i>	(Optional) Show Max Req
<i>tx_period</i>	(Optional) Show Tx Period
<i>rate_limit_period</i>	(Optional) Show Rate Limit Period
<i>reauth_server</i>	(Optional) Show Reauth Server Enabled Status

<i>mac_auth_bypass</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>start_period</i>	(Optional) Show Supplicant Start Period
<i>auth_period</i>	(Optional) Show Supplicant Auth Period
<i>held_period</i>	(Optional) Show Supplicant Held Period
<i>max_start</i>	(Optional) Show Supplicant Max Start

**Command Mode**

- /exec



## show dot1x all details

```
show dot1x all details [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> TABLE_alldetail <if_index>
TABLE_allpaedetail <pae_type> [ <port_control> ] [ <host_mode> ] [ <quiet_period> ] [ <inactivity_period>
] [ <tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ] [ <supp_timeout> ] [ <server_timeout>
] [ <reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [ <mac_auth_bypass> ] [ <no_of_clients> ] [
<port_status_no_clients> ] [ { TABLE_if_auth_clients [ <supp_mac_addr> ] [ <auth_domain> ] [
<auth_sm_state> ] [ <auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method> ] [
<authenticated_by> ] [ <reauth_period_client> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <auth_vlan>
] } ] [ <start_period> ] [ <auth_period> ] [ <held_period> ] [ <max_start> ] [ <no_of_supp_clients> ] [
<auth_mac_addr> ] [ <supp_sm_state> ] [ <supp_bend_sm_state> ] [ <supp_port_status> ] ]
```

### Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
details	802.1x details
<i>__readonly__</i>	(Optional)
TABLE_alldetail	(Optional)
TABLE_allpaedetail	(Optional)
TABLE_if_auth_clients	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>sys_auth_ctrl</i>	(Optional) Show System Auth Control
<i>proto_ver</i>	(Optional) Show Protocol Version
<i>mac_move</i>	(Optional) Show Mac Move
<i>pae_type</i>	(Optional) Show PAE Type
<i>port_control</i>	(Optional) Show Port Control
<i>host_mode</i>	(Optional) Show Host Mode
<i>reauth</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period</i>	(Optional) Show Quiet Period
<i>server_timeout</i>	(Optional) Show Server Timeout
<i>supp_timeout</i>	(Optional) Show Supp Timeout
<i>reauth_period</i>	(Optional) Show Reauth Period
<i>reauth_max</i>	(Optional) Show Reauth Max

<i>max_req</i>	(Optional) Show Max Req
<i>tx_period</i>	(Optional) Show Tx Period
<i>rate_limit_period</i>	(Optional) Show Rate Limit Period
<i>inactivity_period</i>	(Optional) Show Inactivity Period
<i>reauth_server</i>	(Optional) Show Reauth Server Enabled Status
<i>mac_auth_bypass</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>no_of_clients</i>	(Optional) Show Supplicant Clients
<i>port_status_no_clients</i>	(Optional) Show Port Status if there are no clients
<i>supp_mac_addr</i>	(Optional) Show Supplicant MAC Address
<i>auth_domain</i>	(Optional) Show Supplicant Auth Domain
<i>auth_sm_state</i>	(Optional) Show Authenticator SM State
<i>auth_bend_sm_state</i>	(Optional) Show Authenticator Backend State
<i>port_status</i>	(Optional) Show Port Status
<i>authentication_method</i>	(Optional) show authentication method
<i>authenticated_by</i>	(Optional) show authenticated by
<i>reauth_period_client</i>	(Optional) Show Reauth Period
<i>reauth_action</i>	(Optional) Show Reauthentication Action
<i>time_to_next_reauth</i>	(Optional) Show Time to Next Reauth
<i>auth_vlan</i>	(Optional) Show Vlan
<i>start_period</i>	(Optional) Show Supplicant Start Period
<i>auth_period</i>	(Optional) Show Supplicant Auth Period
<i>held_period</i>	(Optional) Show Supplicant Held Period
<i>max_start</i>	(Optional) Show Supplicant Max Start
<i>no_of_supp_clients</i>	(Optional) Show Supplicant Clients
<i>auth_mac_addr</i>	(Optional) Show Authenticator MAC Address
<i>supp_sm_state</i>	(Optional) Show Supplicant SM State
<i>supp_bend_sm_state</i>	(Optional) Show Supplicant Backend SM State
<i>supp_port_status</i>	(Optional) Show Supplicant Port Status

**Command Mode**

- /exec

## show dot1x all statistics

```
show dot1x all statistics [ __readonly__ TABLE_allstat <if_index> TABLE_allpaestat <pae_type> [ <rxstart>
] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlenerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid>
] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemaac> ] [ <rxreq> ] [ <rxsuppinvalid> ] [ <rxsupplenerr> ] [
<rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txsupptotal> ] [ <rxsuppversion> ] [ <lastrxsrcaac>
] ]
```

### Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
statistics	802.1x statistics
__readonly__	(Optional)
TABLE_allstat	(Optional)
TABLE_allpaestat	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>pae_type</i>	(Optional) Show PAE Type
<i>rxstart</i>	(Optional) Show Received EAPOL-Start
<i>rxlogoff</i>	(Optional) Show Received EAPOL-Logoff
<i>rxresp</i>	(Optional) Show Received EAP-Response
<i>rxrespid</i>	(Optional) Show Received EAP-ResponseID
<i>rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame
<i>rxlenerr</i>	(Optional) Show Received EAPOL Bad Length Frame
<i>rxtotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txreq</i>	(Optional) Show Transmitted EAP-Request
<i>txreqid</i>	(Optional) Show Transmitted EAP-RequestID
<i>txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame
<i>rxversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsourcemaac</i>	(Optional) Show Last Source MAC
<i>rxreq</i>	(Optional) Show Received EAP-Request
<i>rxsuppinvalid</i>	(Optional) Show received Invalid EAPOL Frame
<i>rxsupplenerr</i>	(Optional) Show received EAPOL Bad Length Frame

<i>rxsupptotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txstart</i>	(Optional) Show transmitted EAPOL-Start
<i>txlogoff</i>	(Optional) Show transmitted EAPOL-Logoff
<i>txresp</i>	(Optional) Show transmitted EAP-Response
<i>txsupptotal</i>	(Optional) Show transmitted Total EAPOL Frame
<i>rxsuppversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsrmac</i>	(Optional) Show Last Source MAC received

**Command Mode**

- /exec

## show dot1x all summary

```
show dot1x all summary [ __readonly__ TABLE_allsummary <if_index> <pae_type> [
<port_status_no_clients> ] [ { TABLE_if_auth_clients [ <auth_mac_addr> ] [ <port_status> ] } ] ]
```

### Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
summary	802.1x summary
<i>__readonly__</i>	(Optional)
<i>TABLE_allsummary</i>	(Optional)
<i>TABLE_if_auth_clients</i>	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>pae_type</i>	(Optional) Show PAE Type
<i>auth_mac_addr</i>	(Optional) Show Authenticator MAC Address
<i>port_status_no_clients</i>	(Optional) Show Port Status if there are no clients
<i>port_status</i>	(Optional) Show Port Status

### Command Mode

- /exec

## show dot1x interface

```
{ show dot1x interface <if> [ __readonly__ <if_index> <pae_type> [ <port_control> ] [ <host_mode> ] [
<quiet_period> ] [ <inactivity_period> ] [ <tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ] [
<supp_timeout> ] [ <server_timeout> ] [ <reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [
<mac_auth_bypass> ] [ <start_period> ] [ <auth_period> ] [ <held_period> ] [ <max_start> ] ] } | { show
dot1x interface <if> details [ __readonly__ <if_index_detail> <pae_type_detail> [ <port_control_detail> ] [
<host_mode_detail> ] [ <quiet_period_detail> ] [ <inactivity_period_detail> ] [ <tx_period_detail> ] [
<max_req_detail> ] [ <reauth_detail> ] [ <rate_limit_period_detail> ] [ <supp_timeout_detail> ] [
<server_timeout_detail> ] [ <reauth_server_detail> ] [ <reauth_period_detail> ] [ <reauth_max_detail> ] [
<mac_auth_bypass_detail> ] [ <no_of_clients> ] [ <port_status_no_clients_detail> ] [ {
TABLE_if_auth_clients_detail [ <supp_mac_addr_detail> ] [ <auth_domain> ] [ <auth_sm_state> ] [
<auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method> ] [ <authenticated_by> ] [
<reauth_period_client> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <auth_vlan> ] } ] [
<start_period_detail> ] [ <auth_period_detail> ] [ <held_period_detail> ] [ <max_start_detail> ] [
<no_of_supp_clients> ] [ <auth_mac_addr_detail> ] [ <supp_sm_state> ] [ <supp_bend_sm_state> ] [
<supp_port_status> ] ] } | { show dot1x interface <if> statistics [ __readonly__ <if_index_stat> <pae_type_stat>
[ <rxstart> ] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlenerr> ] [ <rxtotal> ] [ <txreq> ]
[ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] [ <rxreq> ] [ <rxsuppinvalid> ] [ <rxsupplennerr>
] [ <rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txsupptotal> ] [ <rxsuppversion> ] [ <lastrxsrcmac>
] ] } | { show dot1x interface <if> summary [ __readonly__ <if_index_summary> <pae_type_summary> [
<port_status_no_clients_summary> ] [ { TABLE_if_auth_clients_summary [ <auth_mac_addr> ] [
<port_status_summary> ] } ] [ <supp_mac_addr> ] [ <supp_port_status_summary> ] ] }
```

### Syntax Description

dot1x	dot1x configuration commands
<i>if</i>	
details	802.1x details
statistics	802.1x statistics
summary	802.1x summary
TABLE_if_auth_clients_detail	(Optional)
TABLE_if_auth_clients_summary	(Optional)
__readonly__	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>if_index_detail</i>	(Optional) Interface Index
<i>if_index_stat</i>	(Optional) Interface Index
<i>if_index_summary</i>	(Optional) Interface Index
<i>pae_type</i>	(Optional) Show PAE Type
<i>port_control</i>	(Optional) Show Port Control

<i>host_mode</i>	(Optional) Show Host Mode
<i>reauth</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period</i>	(Optional) Show Quiet Period
<i>inactivity_period</i>	(Optional) Show Inactivity Period
<i>server_timeout</i>	(Optional) Show Server Timeout
<i>supp_timeout</i>	(Optional) Show Supp Timeout
<i>reauth_period</i>	(Optional) Show Reauth Period
<i>reauth_max</i>	(Optional) Show Reauth Max
<i>max_req</i>	(Optional) Show Max Req
<i>tx_period</i>	(Optional) Show Tx Period
<i>rate_limit_period</i>	(Optional) Show Rate Limit Period
<i>start_period</i>	(Optional) Show Supplicant Start Period
<i>auth_period</i>	(Optional) Show Supplicant Auth Period
<i>held_period</i>	(Optional) Show Supplicant Held Period
<i>max_start</i>	(Optional) Show Supplicant Max Start
<i>reauth_server</i>	(Optional) Show Reauth Server Enabled Status
<i>mac_auth_bypass</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>pae_type_detail</i>	(Optional) Show PAE Type
<i>port_control_detail</i>	(Optional) Show Port Control
<i>host_mode_detail</i>	(Optional) Show Host Mode
<i>reauth_detail</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period_detail</i>	(Optional) Show Quiet Period
<i>inactivity_period_detail</i>	(Optional) Show Inactivity Period
<i>server_timeout_detail</i>	(Optional) Show Server Timeout
<i>supp_timeout_detail</i>	(Optional) Show Supp Timeout
<i>reauth_period_detail</i>	(Optional) Show Reauth Period
<i>reauth_max_detail</i>	(Optional) Show Reauth Max
<i>max_req_detail</i>	(Optional) Show Max Req
<i>tx_period_detail</i>	(Optional) Show Tx Period



<i>rate_limit_period_detail</i>	(Optional) Show Rate Limit Period
<i>reauth_server_detail</i>	(Optional) Show Reauth Server Enabled Status
<i>mac_auth_bypass_detail</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>no_of_clients</i>	(Optional) Show Supplicant Clients
<i>port_status_no_clients_detail</i>	(Optional) Show Port Status if there are no clients
<i>supp_mac_addr_detail</i>	(Optional) Show Supplicant MAC Address
<i>auth_domain</i>	(Optional) Show Supplicant Auth Domain
<i>auth_sm_state</i>	(Optional) Show Authenticator SM State
<i>auth_bend_sm_state</i>	(Optional) Show Authenticator Backend State
<i>port_status</i>	(Optional) Show Port Status
<i>authentication_method</i>	(Optional) show authentication method
<i>authenticated_by</i>	(Optional) show authenticated by
<i>reauth_period_client</i>	(Optional) Show Reauth Period
<i>reauth_action</i>	(Optional) Show Reauthentication Action
<i>time_to_next_reauth</i>	(Optional) Show Time to Next Reauth
<i>auth_vlan</i>	(Optional) Show vlan
<i>start_period_detail</i>	(Optional) Show Supplicant Start Period
<i>auth_period_detail</i>	(Optional) Show Supplicant Auth Period
<i>held_period_detail</i>	(Optional) Show Supplicant Held Period
<i>max_start_detail</i>	(Optional) Show Supplicant Max Start
<i>no_of_supp_clients</i>	(Optional) Show Supplicant Clients
<i>auth_mac_addr_detail</i>	(Optional) Show Authenticator MAC Address
<i>supp_sm_state</i>	(Optional) Show Supplicant SM State
<i>supp_bend_sm_state</i>	(Optional) Show Supplicant Backend SM State
<i>supp_port_status</i>	(Optional) Show Supplicant Port Status
<i>pae_type_stat</i>	(Optional) Show PAE Type
<i>rxstart</i>	(Optional) Show Received EAPOL-Start
<i>rxlogoff</i>	(Optional) Show Received EAPOL-Logoff
<i>rxresp</i>	(Optional) Show Received EAP-Response

<i>rxrespid</i>	(Optional) Show Received EAP-ResponseID
<i>rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame
<i>rxlenerr</i>	(Optional) Show Received EAPOL Bad Length Frame
<i>rxtotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txreq</i>	(Optional) Show Transmitted EAP-Request
<i>txreqid</i>	(Optional) Show Transmitted EAP-RequestID
<i>txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame
<i>rxversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsourcemac</i>	(Optional) Show Last Source MAC
<i>rxreq</i>	(Optional) Show Received EAP-Request
<i>rxsuppinvalid</i>	(Optional) Show received Invalid EAPOL Frame
<i>rxsupplenerr</i>	(Optional) Show received EAPOL Bad Length Frame
<i>rxsupptotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txstart</i>	(Optional) Show transmitted EAPOL-Start
<i>txlogoff</i>	(Optional) Show transmitted EAPOL-Logoff
<i>txresp</i>	(Optional) Show transmitted EAP-Response
<i>txsupptotal</i>	(Optional) Show transmitted Total EAPOL Frame
<i>rxsuppversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsrmac</i>	(Optional) Show Last Source MAC received
<i>pae_type_summary</i>	(Optional) Show PAE Type
<i>port_status_no_clients_summary</i>	(Optional) Show Port Status if there are no clients
<i>port_status_summary</i>	(Optional) Show Port Status
<i>supp_port_status_summary</i>	(Optional) Show Port Status
<i>supp_mac_addr</i>	(Optional) Show Supplicant Client MAC Address
<i>auth_mac_addr</i>	(Optional) Show Auth Client MAC Address

**Command Mode**

- /exec

## show dot1x interface client statistics

```
show dot1x interface <if> client statistics [ __readonly__ <if_index_stat> <pae_type_stat> [ {
TABLE_mac_address [ <macaddr> ] [ <rxstart> ] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [
<rxlenerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] } ] [
<spurious_rxstart> ] [ <spurious_rxlogoff> ] [ <spurious_rxresp> ] [ <spurious_rxrespid> ] [
<spurious_rxinvalid> ] [ <spurious_rxlenerr> ] [ <spurious_rxtotal> ] [ <spurious_txreq> ] [ <spurious_txreqid>
] [ <spurious_txtotal> ] [ <spurious_rxversion> ] [ <spurious_lastrxsourcemac> ] ]
```

### Syntax Description

dot1x	dot1x configuration commands
<i>if</i>	
client	802.1x client
statistics	802.1x statistics
__readonly__	(Optional)
TABLE_mac_address	(Optional)
<i>if_index_stat</i>	(Optional) Interface Index
<i>pae_type_stat</i>	(Optional) Show PAE Type
<i>macaddr</i>	(Optional) mac-address of the client
<i>rxstart</i>	(Optional) Show Received EAPOL-Start
<i>rxlogoff</i>	(Optional) Show Received EAPOL-Logoff
<i>rxresp</i>	(Optional) Show Received EAP-Response
<i>rxrespid</i>	(Optional) Show Received EAP-ResponseID
<i>rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame
<i>rxlenerr</i>	(Optional) Show Received EAPOL Bad Length Frame
<i>rxtotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txreq</i>	(Optional) Show Transmitted EAP-Request
<i>txreqid</i>	(Optional) Show Transmitted EAP-RequestID
<i>txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame
<i>rxversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsourcemac</i>	(Optional) Show Last Source MAC
<i>spurious_rxstart</i>	(Optional) Show Received EAPOL-Start of spurious macs

<i>spurious_rxlogoff</i>	(Optional) Show Received EAPOL-Logoff of spurious macs
<i>spurious_rxresp</i>	(Optional) Show Received EAP-Response of spurious macs
<i>spurious_rxrespid</i>	(Optional) Show Received EAP-ResponseID of spurious macs
<i>spurious_rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame of spurious macs
<i>spurious_rxlennerr</i>	(Optional) Show Received EAPOL Bad Length Frame of spurious macs
<i>spurious_rxtotal</i>	(Optional) Show Received Total EAPOL Frame of spurious macs
<i>spurious_txreq</i>	(Optional) Show Transmitted EAP-Request of spurious macs
<i>spurious_txreqid</i>	(Optional) Show Transmitted EAP-RequestID of spurious macs
<i>spurious_txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame of spurious macs
<i>spurious_rxversion</i>	(Optional) Show Received EAPOL Version of spurious macs
<i>spurious_lastrxsourcemac</i>	(Optional) Show Last Source MAC of spurious macs

**Command Mode**

- /exec

## show dot1x interface client statistics address

```
show dot1x interface <if> client statistics address <mac-address> [ __readonly__ <if_index_stat>
<pae_type_stat> [ <rxstart> ] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlenerr> ] [ <rxtotal> ]
[ <txreq> ] [ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] ]
```

### Syntax Description

dot1x	dot1x configuration commands
<i>if</i>	
client	802.1x client
statistics	802.1x statistics
address	802.1x client address
<i>mac-address</i>	mac address EE:EE:EE:EE:EE:EE
<i>__readonly__</i>	(Optional)
<i>if_index_stat</i>	(Optional) Interface Index
<i>pae_type_stat</i>	(Optional) Show PAE Type
<i>rxstart</i>	(Optional) Show Received EAPOL-Start
<i>rxlogoff</i>	(Optional) Show Received EAPOL-Logoff
<i>rxresp</i>	(Optional) Show Received EAP-Response
<i>rxrespid</i>	(Optional) Show Received EAP-ResponseID
<i>rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame
<i>rxlenerr</i>	(Optional) Show Received EAPOL Bad Length Frame
<i>rxtotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txreq</i>	(Optional) Show Transmitted EAP-Request
<i>txreqid</i>	(Optional) Show Transmitted EAP-RequestID
<i>txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame
<i>rxversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsourcemac</i>	(Optional) Show Last Source MAC

### Command Mode

- /exec

**show dot1x interface client statistics address**



## E Show Commands

---

- [show ecp, on page 334](#)
- [show elam report, on page 336](#)
- [show email, on page 337](#)
- [show encryption service stat, on page 338](#)
- [show environment, on page 339](#)
- [show errdisable detect, on page 345](#)
- [show errdisable flap, on page 346](#)
- [show evb, on page 347](#)
- [show evb hosts, on page 348](#)
- [show evb vsi, on page 350](#)
- [show event manager environment, on page 352](#)
- [show event manager event-types, on page 353](#)
- [show event manager events action-log, on page 354](#)
- [show event manager history events, on page 355](#)
- [show event manager policy-state, on page 356](#)
- [show event manager script system, on page 357](#)
- [show event manager system-policy, on page 358](#)

# show ecp

```
show ecp [ detail ] [ __readonly__ <ecp_rte> <ecp_retries> [ <ecp_mode> ] <ecp_cnt_rx_pkt>
<ecp_cnt_tx_pkt> [ { TABLE_ecp_plugin <plugin_id> <plugin_desc> <plugin_status> } ] [ {
TABLE_ecp_session <session_id> <session_interface> <session_svlan> [ <session_peer_mac> ]
<session_rx_seq> <session_tx_seq> [ <session_cnt_rx_pkt> ] [ <session_cnt_rx_dup> ] [
<session_cnt_rx_drop> ] [ <session_cnt_tx_pkt> ] [ <session_cnt_tx_retry> ] [ <session_cnt_tx_err> ] } ] ]
```

## Syntax Description

show	Show running system information
ecp	ECP (Edge Control Protocol)
detail	(Optional) Detailed information
__readonly__	(Optional)
<i>ecp_rte</i>	(Optional) Retransmission timer init exponent
<i>ecp_retries</i>	(Optional) Maximal number of retransmissions
<i>ecp_mode</i>	(Optional) ECP mode
<i>ecp_cnt_rx_pkt</i>	(Optional) No. received packet
<i>ecp_cnt_tx_pkt</i>	(Optional) No. transmitted packet
TABLE_ecp_plugin	(Optional) ECP plugin table
<i>plugin_id</i>	(Optional) Plugin id
<i>plugin_desc</i>	(Optional) Plugin description
<i>plugin_status</i>	(Optional) Plugin status
TABLE_ecp_session	(Optional) ECP session table
<i>session_id</i>	(Optional) Session id
<i>session_svlan</i>	(Optional) S-Vlan
<i>session_peer_mac</i>	(Optional) Peer mac
<i>session_interface</i>	(Optional) Interface
<i>session_rx_seq</i>	(Optional) Receive sequence
<i>session_tx_seq</i>	(Optional) Transmit sequence
<i>session_cnt_rx_pkt</i>	(Optional) No. receive packet
<i>session_cnt_rx_dup</i>	(Optional) No. receive duplicate
<i>session_cnt_rx_drop</i>	(Optional) No. receive drop



<i>session_cnt_tx_pkt</i>	(Optional) No. transmit packet
<i>session_cnt_tx_retry</i>	(Optional) No. transmit retry
<i>session_cnt_tx_err</i>	(Optional) No. transmit error

**Command Mode**

- /exec

# show elam report

show elam report [ l2 | l3 | l4 | aclqos | mcast | mpls ]

## Syntax Description

show	Show running system information
elam	elam
report	Show ELAM report
l2	(Optional) Layer 2 header report
l3	(Optional) Layer 3 header report
l4	(Optional) Layer 4 header report
aclqos	(Optional) Aclqos report
mcast	(Optional) Multicast report
mpls	(Optional) MPLS report

## Command Mode

- /exec/elamtah/outsel2

# show email

```
show email [ __readonly__ [ <ipv4> ] [ <ipv6> ] [ <host> ] [ <port> ] [ <reply> ] [ <from> ] [ <vrfname> ] ]
```

## Syntax Description

show	Show running system information
email	Pipe email configuration
<i>__readonly__</i>	(Optional)
<i>ipv4</i>	(Optional)
<i>host</i>	(Optional)
<i>port</i>	(Optional)
<i>reply</i>	(Optional)
<i>from</i>	(Optional)
<i>vrfname</i>	(Optional)

## Command Mode

- /exec

# show encryption service stat

```
show encryption service stat [ __readonly__ [ <encryptionService> <MasterKeyEncryption>
<Type6Encryption> ] ]
```

## Syntax Description

show	Show running system information
encryption	Encryption service
service	Encryption service
stat	Encryptpin service status
<i>__readonly__</i>	(Optional)
<i>encryptionService</i>	(Optional) Encryption service status
<i>MasterKeyEncryption</i>	(Optional) Master key status
<i>Type6Encryption</i>	(Optional) Is type 6 encryption used?

## Command Mode

- /exec

## show environment

```
show environment [ fan [ detail1 ] | power [ detail ] [ ampere ] [ input ] | temperature [ module <module> |
<s0> <santa-cruz-range> | psu ] [ __readonly__ [ { TABLE_clockinfo <clockname> <clkmodel> <clkhwver>
<clkstatus> <act_standby> } ] [ { fandetails [ { TABLE_faninfo <fanname> <fanmodel> <fanhwver> <fandir>
<fanstatus> } ] { TABLE_fan_zone_speed <zone> <zonespeed> } <fan_filter_status> [ { TABLE_fantray
<fanname> <trayfannum> <fandir> <fanperc> <fanrpm> } ] [ { TABLE_psufan <fanname> <fan1rpm>
<fan2rpm> } ] ] [ { powersup [ <voltage_level> ] [ { TABLE_psinfo <psnum> <psmodel> [ <actual_out>
] [ <actual_input> ] [ <tot_capa> ] [ <input_type> ] [ <watts> ] [ <amps> ] [ <ps_status> ] [ <ps_status_3k>
] ] ] [ { TABLE_mod_pow_info <modnum> <mod_model> [ <actual_draw> ] [ <allocated> ] [
<watts_requested> ] [ <amps_requested> ] [ <watts_allocated> ] [ <amps_allocated> ] [ <modstatus> ] [
<modstatus_3k> ] ] ] [ { power_summary [ <ps_redun_mode> ] [ <ps_redun_mode_3k> ] [ <ps_oper_mode>
] [ <ps_redun_op_mode> ] <tot_pow_capacity> [ <tot_gridA_capacity> ] [ <tot_gridB_capacity> ] [
<cumulative_power> ] [ <tot_pow_out_actual_draw> ] [ <tot_pow_input_actual_draw> ] [
<tot_pow_alloc_budgeted> ] [ <reserve_sup> ] [ <pow_used_by_mods> ] <available_pow> } ] [ {
powersup_detail <reserve_sup> <reserve_xbar> <reserve_fan> <reserve_supxbarfan> <pow_used_by_mods>
} ] [ <all_inlets_connected> ] [ { TABLE_ps_detail_info <det_name> <det_total_cap> <det_volt> <det_pintot>
[ <det_pina> ] <det_vin> <det_iin> <det_pout> <det_vout> <det_iout> [ <det_pinb> ] [ <det_iinb> ] [
<det_vinb> ] [ <det_cord> ] <det_sw_alarm> [ { TABLE_det_hw_alarm_regval <regnum> <regval> } ] [ {
TABLE_det_hw_alarm_str <regnumstr> <bitnumstr> <alarm_str> } ] ] [ { TABLE_psinpinfo_n3k
<ps_slot> <ps_input_voltage> <ps_input_current> <ps_in_power> [ <ps_output_voltage> ] [
<ps_output_current> ] <ps_state> } ] ] [ { fandetails_3k [ { TABLE_faninfo <fanname> <fanmodel>
<fanhwver> <fandir> <fanstatus> } ] { TABLE_fan_zone_speed <zone> <speed> } <fan_filter_status> [ {
TABLE_fantray <fanname> <fannum> <fandir> <fanperc> <fanrpm> } ] [ { TABLE_psufan <fanname>
<fan1rpm> <fan2rpm> } ] ] [ { TABLE_tempinfo <tempmod> <sensor> <majthres> <minthres> <curtemp>
<alarmstatus> [ <temptype> } ] ] [ { TABLE_psutempinfo <psumod> <inlet_temp> <outlet_temp>
<heatsink_temp> } ] ] ]
```

### Syntax Description

show	Show running system information
environment	system environment information
fan	(Optional) Fan information
power	(Optional) Power capacity and power distribution information
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail1	(Optional) Detail Fan-tray information when used with Fan
ampere	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
input	(Optional) Power supply power input
temperature	(Optional) temperature sensor information
module	(Optional) enter a module number
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) xbar

<i>santa-cruz-range</i>	(Optional) please enter the xbar number
psu	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_clockinfo	(Optional) Environment Clock
<i>clockname</i>	(Optional) Clock Instance (A or B)
<i>clkmodel</i>	(Optional) Model number of clock
<i>clkhwver</i>	(Optional) Hardware version of the clock
<i>clkstatus</i>	(Optional) Present/Absent Status of the clock
<i>act_standby</i>	(Optional) Active/Standby Status of clock
fanetails	(Optional) Environment Fan
TABLE_faninfo	(Optional) Fan Info
<i>fanname</i>	(Optional) Fan Instance
<i>fanmodel</i>	(Optional) Model number of fan
<i>fanhwver</i>	(Optional) Hardware version of the fan
<i>fandir</i>	(Optional) Air-flow direction of the fan-tray
<i>fanstatus</i>	(Optional) Present/Absent Status of the fan
TABLE_fan_zone_speed	(Optional) Fan Zone Speeds
<i>zone</i>	(Optional) Zone Number
<i>zonespeed</i>	(Optional) Zone Speed
<i>fan_filter_status</i>	(Optional) Present/Absent Status of fan filter
TABLE_fantray	(Optional) Fan Tray Details table
<i>fanname</i>	(Optional) Fan Tray Instance
<i>trayfannum</i>	(Optional) Fan number in the tray
<i>fandir</i>	(Optional) Air-flow direction of the fan-tray
<i>fanperc</i>	(Optional) FAN Speed percentage
<i>fanrpm</i>	(Optional) FAN Speed RPM
TABLE_psufan	(Optional) PSU Fan Details table
<i>fanname</i>	(Optional) PSU Fan Instance
<i>fan1rpm</i>	(Optional) FAN1 Speed RPM

<i>fan2rpm</i>	(Optional) FAN2 Speed RPM
<i>fandetails_3k</i>	(Optional) Environment Fan
TABLE_faninfo	(Optional) Fan Info
<i>fanname</i>	(Optional) Fan Instance
<i>fanmodel</i>	(Optional) Model number of fan
<i>fanhwver</i>	(Optional) Hardware version of the fan
<i>fandir</i>	(Optional) Air-flow direction of the fan-tray
<i>fanstatus</i>	(Optional) Present/Absent Status of the fan
TABLE_fan_zone_speed	(Optional) Fan Zone Speeds
<i>zone</i>	(Optional) Zone Number
<i>speed</i>	(Optional) Zone Speed
<i>fan_filter_status</i>	(Optional) Present/Absent Status of fan filter
TABLE_fantray	(Optional) Fan Tray Details table
<i>fanname</i>	(Optional) Fan Tray Instance
<i>fannum</i>	(Optional) Fan number in the tray
<i>fandir</i>	(Optional) Air-flow direction of the fan-tray
<i>fanperc</i>	(Optional) FAN Speed percentage
<i>fanrpm</i>	(Optional) FAN Speed RPM
TABLE_psufan	(Optional) PSU Fan Details table
<i>fanname</i>	(Optional) PSU Fan Instance
<i>fan1rpm</i>	(Optional) FAN1 Speed RPM
<i>fan2rpm</i>	(Optional) FAN2 Speed RPM
<i>powersup</i>	(Optional) Environment Power
<i>voltage_level</i>	(Optional) Voltage Level
TABLE_psinfo	(Optional) Power Supply Info
<i>psnum</i>	(Optional) Power Supply Number
<i>psmodel</i>	(Optional) Power Supply Model
<i>actual_out</i>	(Optional) Actual Output
<i>actual_input</i>	(Optional) Actual Input

<i>tot_capa</i>	(Optional) Total Capacity
<i>input_type</i>	(Optional) Power Supply Input Type
<i>watts</i>	(Optional) Power in Watts
<i>amps</i>	(Optional) Power in Amps
<i>ps_status</i>	(Optional) Power Supply Status
<i>ps_status_3k</i>	(Optional) Power Supply Status
TABLE_mod_pow_info	(Optional) Module Power Info
<i>modnum</i>	(Optional) Module number
<i>mod_model</i>	(Optional) Model ProductID number
<i>actual_draw</i>	(Optional) Actual Draw
<i>allocated</i>	(Optional) Power allocated
<i>watts_requested</i>	(Optional) Power requested in Watts
<i>amps_requested</i>	(Optional) Power requested in Amps
<i>watts_alloced</i>	(Optional) Power allocated in Watts
<i>amps_alloced</i>	(Optional) Power allocated in Amps
<i>modstatus</i>	(Optional) Module Status
<i>modstatus_3k</i>	(Optional) Module status
power_summary	(Optional) Power Usage Summary
<i>ps_redun_mode</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_mode_3k</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_op_mode</i>	(Optional) Operational mode: Redundant or Non-redundant
<i>ps_oper_mode</i>	(Optional) Operational Mode
<i>tot_pow_capacity</i>	(Optional) Total Power Capacity
<i>tot_gridA_capacity</i>	(Optional) Total Grid-A Capacity
<i>tot_gridB_capacity</i>	(Optional) Total Grid-B Capacity
<i>cumulative_power</i>	(Optional) Total Power of all Inputs
<i>tot_pow_out_actual_draw</i>	(Optional) Total Power Output, Actuals
<i>tot_pow_input_actual_draw</i>	(Optional) Total Power Input, Actuals
<i>tot_pow_alloc_budgeted</i>	(Optional) Total Power Allocated/budgeted



<i>reserve_sup</i>	(Optional) Power reserved for Supervisors
<i>pow_used_by_mods</i>	(Optional) Power currently used by Modules
<i>available_pow</i>	(Optional) Remaining Power Available
<i>powersup_detail</i>	(Optional) PowerSupply Details
<i>reserve_sup</i>	(Optional) Power reserved for Supervisors
<i>reserve_xbar</i>	(Optional) Power reserved for Xbars
<i>reserve_fan</i>	(Optional) Power reserved for Fans
<i>reserve_supxbarfan</i>	(Optional) Total Power reserved for Sups,Xbars,Fans
<i>pow_used_by_mods</i>	(Optional) Power currently used by Modules
<i>all_inlets_connected</i>	(Optional) Are all inlet cords connected
TABLE_ps_detail_info	(Optional) Power supply detail information
<i>det_name</i>	(Optional) Power supply name
<i>det_total_cap</i>	(Optional) Power supply total capacity
<i>det_volt</i>	(Optional) Power supply voltage
<i>det_pintot</i>	(Optional) Power supply pin A total power
<i>det_pina</i>	(Optional) PS pin A
<i>det_vin</i>	(Optional) PS Vin
<i>det_iin</i>	(Optional) PS Iin
<i>det_pout</i>	(Optional) PS Power out
<i>det_vout</i>	(Optional) PS voltaget out
<i>det_iout</i>	(Optional) PS current in
<i>det_pinb</i>	(Optional) PS pin B
<i>det_iinb</i>	(Optional) PS Iin B
<i>det_vinb</i>	(Optional) PS Vin B
<i>det_cord</i>	(Optional) PS cord
<i>det_sw_alarm</i>	(Optional) PS software alarm
TABLE_det_hw_alarm_regval	(Optional) PS hardware alarm
<i>regnum</i>	(Optional) HW alarm register
<i>regval</i>	(Optional) Alarm reg value

TABLE_det_hw_alarm_str	(Optional) PS Hardware alarm string
<i>regnumstr</i>	(Optional) Alarm reg number
<i>bitnumstr</i>	(Optional) Alarm register bit
<i>alarm_str</i>	(Optional) Alarm cause
TABLE_psinputinfo_n3k	(Optional) Power Supply power input
<i>ps_slot</i>	(Optional) Power Supply Number
<i>ps_input_voltage</i>	(Optional) Power Supply input volatage
<i>ps_input_current</i>	(Optional) Power Supply input current
<i>ps_in_power</i>	(Optional) Power Supply input power
<i>ps_output_voltage</i>	(Optional) Power Supply output volatage
<i>ps_output_current</i>	(Optional) Power Supply output current
<i>ps_state</i>	(Optional) Power Supply status
TABLE_tempinfo	(Optional) Environment Temperature
<i>tempmod</i>	(Optional) Module
<i>sensor</i>	(Optional) Sensor name
<i>majthres</i>	(Optional) Major Threshold
<i>minthres</i>	(Optional) Minor Threshold
<i>curtemp</i>	(Optional) Current temperature
<i>alarmstatus</i>	(Optional) Alarm Status
<i>temptype</i>	(Optional) Control or Monitor temperature
TABLE_psutempinfo	(Optional) PSU temperature info table
<i>psumod</i>	(Optional) PSU Module
<i>inlet_temp</i>	(Optional) Inlet Temperature
<i>outlet_temp</i>	(Optional) Outlet Temperature
<i>heatsink_temp</i>	(Optional) Heatsink Temperature

### Command Mode

- /exec

## show errdisable detect

```
show errdisable { detect | recovery } [ __readonly__ TABLE_errdisable <cause> <state> [ <time_interval> ] ]
```

### Syntax Description

show	Show running system information
errdisable	Error disable
detect	Show errdisable detect
recovery	Show errdisable recovery
__readonly__	(Optional) Read Only
TABLE_errdisable	(Optional) show errdisable
<i>cause</i>	(Optional) errdisable cause
<i>state</i>	(Optional) Interface state
<i>time_interval</i>	(Optional) err recovery time interval

### Command Mode

- /exec

# show errdisable flap

show errdisable flap

## Syntax Description

show	Show running system information
errdisable	Error disable
flap	linkstate flapping

## Command Mode

- /exec

# show evb

```
show evb [ __readonly__ <evb_role> <evb_vdp_mac> [ <evb_cisco_mac> ] [ <evb_user_mac> ] <evb_rwd>
<evb_rka> <evb_cnt_recv_vdpdu> <evb_cnt_drop_vdpdu> <evb_cnt_recv_tlv> <evb_cnt_recv_mgr_tlv>
<evb_cnt_recv_assoc_tlv> <evb_cnt_recv_cmd> ]
```

## Syntax Description

show	Show running system information
evb	EVB (Edge Virtual Bridge)
__readonly__	(Optional)
<i>evb_role</i>	(Optional) EVB role
<i>evb_vdp_mac</i>	(Optional) VDP Mac address
<i>evb_cisco_mac</i>	(Optional) Cisco Mac address
<i>evb_user_mac</i>	(Optional) User mac address
<i>evb_rwd</i>	(Optional) Resource wait init exponent
<i>evb_rka</i>	(Optional) Keep-alive init exponent
<i>evb_cnt_recv_vdpdu</i>	(Optional) No. received vdpdu
<i>evb_cnt_drop_vdpdu</i>	(Optional) No. dropped vdpdu
<i>evb_cnt_recv_tlv</i>	(Optional) No. received tlv
<i>evb_cnt_recv_mgr_tlv</i>	(Optional) No. received mgr tlv
<i>evb_cnt_recv_assoc_tlv</i>	(Optional) No. received assoc tlv
<i>evb_cnt_recv_cmd</i>	(Optional) No. received commands

## Command Mode

- /exec



TABLE_evb_host	(Optional) EVB host table
<i>host_row_id</i>	(Optional) Host row id
<i>host_name</i>	(Optional) Host name
<i>host_uuid</i>	(Optional) Host uuid
TABLE_evb_vsi	(Optional) EVB vsi table
<i>vsi_row_id</i>	(Optional) VSI row id
<i>mgr_id</i>	(Optional) Manager id
<i>vsi_id</i>	(Optional) VSI id
<i>vsi_host_name</i>	(Optional) Host name
<i>interface</i>	(Optional) Interface
<i>vpc</i>	(Optional) VPC
<i>s_channel</i>	(Optional) S-Channel
<i>station_mac</i>	(Optional) Station mac address
<i>profile_id</i>	(Optional) Profile id
<i>m_state</i>	(Optional) Machine state
<i>e_state</i>	(Optional) Entry state
<i>reason</i>	(Optional) State reason
<i>timer</i>	(Optional) Countdown timer
TABLE_evb_vsi_filter	(Optional) EVB filter table
<i>filter_row_id</i>	(Optional) Filter row id
<i>filter_group</i>	(Optional) Group id
<i>filter_vid</i>	(Optional) Vlan id
<i>filter_bd</i>	(Optional) Bridge-domain id
<i>filter_mac</i>	(Optional) Mac address
<i>filter_ip</i>	(Optional) IP address

### Command Mode

- /exec

## show evb vsi

```
show evb vsi [ { summary | detail | internal-info } ] [ [ { mac <mac-addr> | interface <intf-name> | vlan
<vlan-id> | vni <vni-id> | ip <ip-addr> | ipv6 <ipv6-addr> } + } ] [ __readonly__ <evb_cnt_vsi>
<evb_cnt_assoc_vsi> [ { TABLE_evb_vsi <vsi_row_id> <mgr_id> <vsi_id> [ <vsi_host_name> ] <interface>
[ <vpc> ] [ <s_channel> ] [ <station_mac> ] [ <m_state> ] [ <e_state> ] [ <reason> ] [ <timer> ] [ <profile_id>
] [ { TABLE_evb_vsi_filter <filter_row_id> [ <filter_group> ] [ <filter_vid> ] [ <filter_bd> ] [ <filter_mac>
] [ <filter_ip> ] } } ] ] ]
```

### Syntax Description

show	Show running system information
evb	EVB (Edge Virtual Bridge)
vsi	Virtual Station Interface (VSI) information
summary	(Optional) Display summary information
detail	(Optional) Display detailed information
internal-info	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
mac	(Optional) Display VSI by MAC address
<i>mac-addr</i>	(Optional) MAC Address
interface	(Optional) Display VSI by interface
<i>intf-name</i>	(Optional) Interface name
vlan	(Optional) Display VSI by VLAN
<i>vlan-id</i>	(Optional) VLAN ID
vni	(Optional) Display VSI by Virtual Network Identifier
<i>vni-id</i>	(Optional) VNI
ip	(Optional) Display VSI by IP address
ipv6	(Optional) Display VSI by IPv6 address
<i>ip-addr</i>	(Optional) IP address
<i>__readonly__</i>	(Optional)
<i>evb_cnt_vsi</i>	(Optional) No. VSI entries
<i>evb_cnt_assoc_vsi</i>	(Optional) No. associated VSI entries
TABLE_evb_vsi	(Optional) EVB vsi table
<i>vsi_row_id</i>	(Optional) VSI row id



<i>mgr_id</i>	(Optional) Manager id
<i>vsi_id</i>	(Optional) VSI id
<i>vsi_host_name</i>	(Optional) Host name
<i>interface</i>	(Optional) Interface
<i>vpc</i>	(Optional) VPC
<i>s_channel</i>	(Optional) S-Channel
<i>station_mac</i>	(Optional) Station mac address
<i>profile_id</i>	(Optional) Profile id
<i>m_state</i>	(Optional) Machine state
<i>e_state</i>	(Optional) Entry state
<i>reason</i>	(Optional) State reaon
<i>timer</i>	(Optional) Countdown timer
TABLE_evb_vsi_filter	(Optional) EVB filter table
<i>filter_row_id</i>	(Optional) Filter row id
<i>filter_group</i>	(Optional) Group id
<i>filter_vid</i>	(Optional) Vlan id
<i>filter_bd</i>	(Optional) Bridge-domain id
<i>filter_mac</i>	(Optional) Mac address
<i>filter_ip</i>	(Optional) IP address

**Command Mode**

- /exec

# show event manager environment

show event manager environment { all | <varname> } [ \_\_readonly\_\_ <environment-details> ]

## Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
environment	Show information about environment variables
all	Show information about all the configured environment variables
<i>varname</i>	The environment variable name on which information is required
__readonly__	(Optional)
<i>environment-details</i>	(Optional) Show information about environment variables

## Command Mode

- /exec

## show event manager event-types

```
show event manager event-types [ all | <event-type-name> ] [ module <module-id> ] [ __readonly__ {
<event-types> } ]
```

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
event-types	Show information about registered event types
all	(Optional) Show information about advanced event types as well
<i>event-type-name</i>	(Optional) Show information about the specified event type
module	(Optional) Show information about event types on other modules
<i>module-id</i>	(Optional) Module Id
__readonly__	(Optional)
<i>event-types</i>	(Optional) Show information about registered event types

### Command Mode

- /exec

## show event manager events action-log

```
show event manager events action-log [ policy <policy-name> | event-type <event-type-name> ] [ __readonly__
{ <action-log-data> } ]
```

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
events	Show information about the history of past events
action-log	Show policy action logs
policy	(Optional) Name of policy
<i>policy-name</i>	(Optional) Enter policy name
event-type	(Optional) Name of event
<i>event-type-name</i>	(Optional) Enter event type
__readonly__	(Optional)
<i>action-log-data</i>	(Optional) Show information about the policy action logs

### Command Mode

- /exec

## show event manager history events

```
show event manager history events [ detail ] [ maximum <n-events> ] [ severity <sev> ] [ __readonly__ {
<history-events> } ]
```

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
history	Show information about the history of past activity
events	Show information about the history of past events
detail	(Optional) Show information about the event parameters as well
maximum	(Optional) Specify an upper limit on the number of events to be shown
<i>n-events</i>	(Optional) Specify the maximum number of events to be shown
severity	(Optional) Show only those events whose severity is $\geq$ specified severity
<i>sev</i>	(Optional) Enter the severity threshold
__readonly__	(Optional)
<i>history-events</i>	(Optional) Show information about the history of past events

### Command Mode

- /exec

## show event manager policy-state

```
show event manager policy-state <name> [ module <module-id> ] [ __readonly__ { <policy-state> } ]
```

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
policy-state	Show information about the state of a policy
<i>name</i>	Name of the policy
module	(Optional) Get the information from a module
<i>module-id</i>	(Optional) Module Id
__readonly__	(Optional)
<i>policy-state</i>	(Optional) Show information about the state of a policy

### Command Mode

- /exec

## show event manager script system

```
show event manager script system { all | <script-name> } [ __readonly__ <script_system_details> ]
```

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
script	Show information about a script policy
system	Show information about a system script policy
all	Show all the available system script policies
<i>script-name</i>	Name of the system script policy
<i>__readonly__</i>	(Optional)
<i>script_system_details</i>	(Optional) Show Information about system script policies

### Command Mode

- /exec

## show event manager system-policy

```
show event manager system-policy [ all | <policy-name> ] [ __readonly__ { [ TABLE_eem [ <thresh_min> ] [ <thresh_max> ] <event_name> <event_description> <event_overridable> ] } ]
```

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
system-policy	Show information about default system policies
all	(Optional) Show all policies (including advanced and non-overridable ones)
<i>policy-name</i>	(Optional) Show detailed information about the specified policy
<i>__readonly__</i>	(Optional)
TABLE_eem	(Optional)
<i>thresh_min</i>	(Optional)
<i>thresh_max</i>	(Optional)
<i>event_name</i>	(Optional)
<i>event_description</i>	(Optional)
<i>event_overridable</i>	(Optional)

### Command Mode

- /exec





## F Show Commands

---

- [show fabric database dci](#), on page 363
- [show fabric database host](#), on page 365
- [show fabric database host statistics](#), on page 369
- [show fabric database host summary](#), on page 372
- [show fabric database profile-map](#), on page 373
- [show fabric database static-host](#), on page 374
- [show fabric database statistics](#), on page 375
- [show fabric forwarding host-db](#), on page 377
- [show fabric forwarding ip local](#), on page 379
- [show fabric forwarding ipv6 local](#), on page 380
- [show fabric multicast globals](#), on page 381
- [show fabric multicast ipv4 l2 vni](#), on page 382
- [show fabric multicast statistics](#), on page 383
- [show fabric multicast vrf](#), on page 384
- [show fc2 bind](#), on page 385
- [show fc2 classf](#), on page 386
- [show fc2 exchange](#), on page 388
- [show fc2 exchresp](#), on page 390
- [show fc2 flogi](#), on page 392
- [show fc2 nport](#), on page 393
- [show fc2 plogi](#), on page 395
- [show fc2 plogi\\_pwwn](#), on page 397
- [show fc2 port brief](#), on page 398
- [show fc2 port drops](#), on page 401
- [show fc2 port state](#), on page 404
- [show fc2 socket](#), on page 406
- [show fc2 sockexch](#), on page 407
- [show fc2 socknotify](#), on page 408
- [show fc2 socknport](#), on page 409
- [show fc2 vsan](#), on page 410
- [show fcdroplateny](#), on page 411
- [show fcoe-npv issu-impact](#), on page 412
- [show fcoe](#), on page 413

- [show fcoe database](#), on page 414
- [show fctimer](#), on page 415
- [show fctimer D\\_S\\_TOV](#), on page 416
- [show fctimer E\\_D\\_TOV](#), on page 417
- [show fctimer F\\_S\\_TOV](#), on page 418
- [show fctimer R\\_A\\_TOV](#), on page 419
- [show fctimer last action status](#), on page 420
- [show fctimer pending-diff](#), on page 421
- [show fctimer pending](#), on page 422
- [show fctimer session status](#), on page 423
- [show fctimer status](#), on page 424
- [show fctimer vsan](#), on page 425
- [show feature-set](#), on page 426
- [show feature-set services](#), on page 427
- [show feature](#), on page 428
- [show fhrp](#), on page 429
- [show fhrp verbose](#), on page 430
- [show file](#), on page 432
- [show fips status](#), on page 433
- [show flow cache](#), on page 434
- [show flow cache](#), on page 436
- [show flow exporter](#), on page 438
- [show flow exporter](#), on page 440
- [show flow filter](#), on page 442
- [show flow interface](#), on page 443
- [show flow monitor](#), on page 444
- [show flow monitor](#), on page 445
- [show flow profile](#), on page 446
- [show flow record](#), on page 448
- [show flow record](#), on page 451
- [show flow rtp](#), on page 454
- [show flow rtp timeout](#), on page 456
- [show flow system](#), on page 457
- [show flow timeout](#), on page 459
- [show flow tracer](#), on page 460
- [show forwarding](#), on page 461
- [show forwarding adjacency](#), on page 462
- [show forwarding distribution clients](#), on page 465
- [show forwarding distribution fib-state](#), on page 466
- [show forwarding distribution ip igmp snooping](#), on page 467
- [show forwarding distribution ipv6 multicast route](#), on page 468
- [show forwarding distribution l2 multicast](#), on page 470
- [show forwarding distribution lisp counters](#), on page 472
- [show forwarding distribution lisp vrf enabled](#), on page 473
- [show forwarding distribution multicast](#), on page 474
- [show forwarding distribution multicast client-ack-db](#), on page 475

- [show forwarding distribution multicast client](#), on page 476
- [show forwarding distribution multicast download](#), on page 477
- [show forwarding distribution multicast mfib](#), on page 478
- [show forwarding distribution multicast outgoing-interface-list L2\\_PRIME](#), on page 479
- [show forwarding distribution multicast resp-ack-timer-msgs](#), on page 480
- [show forwarding distribution multicast route](#), on page 481
- [show forwarding distribution multicast vxlan dsg-db](#), on page 484
- [show forwarding distribution nve overlay-vlan](#), on page 485
- [show forwarding distribution peer-id](#), on page 486
- [show forwarding distribution trace](#), on page 487
- [show forwarding ecmp](#), on page 488
- [show forwarding ecmp recursive](#), on page 490
- [show forwarding interfaces](#), on page 495
- [show forwarding ipv6 adjacency](#), on page 496
- [show forwarding ipv6 inconsistency](#), on page 498
- [show forwarding ipv6 multicast route](#), on page 500
- [show forwarding kvfib cache on](#), on page 503
- [show forwarding l2 multicast](#), on page 504
- [show forwarding l2vpn label vpls](#), on page 506
- [show forwarding l2vpn label xconnect](#), on page 507
- [show forwarding l2vpn vlan](#), on page 508
- [show forwarding mpls](#), on page 509
- [show forwarding mpls drop-stats](#), on page 511
- [show forwarding mpls ecmp](#), on page 512
- [show forwarding mpls eompls](#), on page 514
- [show forwarding mpls eompls ir](#), on page 515
- [show forwarding mpls srte module](#), on page 517
- [show forwarding mpls summary](#), on page 518
- [show forwarding multicast-sr loopback interface](#), on page 519
- [show forwarding multicast outgoing-interface-list](#), on page 520
- [show forwarding multicast route](#), on page 522
- [show forwarding nve l2 ingress-replication-peers](#), on page 525
- [show forwarding nve l3 adjacency tunnel](#), on page 527
- [show forwarding nve l3 adjacency v6-tunnel](#), on page 529
- [show forwarding nve l3 ecmp](#), on page 531
- [show forwarding nve l3 peers](#), on page 532
- [show forwarding nve underlay-interfaces](#), on page 533
- [show forwarding otv](#), on page 534
- [show forwarding security group-tag](#), on page 535
- [show forwarding security mac](#), on page 537
- [show forwarding trace](#), on page 539
- [show forwarding trace profile](#), on page 540
- [show forwarding trace profile funestats](#), on page 541
- [show fte event](#), on page 542
- [show fte exporter](#), on page 543
- [show fte monitor](#), on page 544

- [show fte record](#), on page 545

## show fabric database dci

```
show fabric database dci [ { vrf { <vrf-name> | <vrf-known-name> } [ peer-id <peer-ip-address> ] [ detail ]
} ] [ __readonly__ [ TABLE_database_dci <vrf_name> <state> <flags> <profile> <instance> ] [
TABLE_database_dci_detail <packet_arrival_time> <sent_to_database_manager_at>
<received_parameters_from_database_manager_at> <sent_apply_to_configuration_manager_at>
<completed_executing_all_commands_at> <sent_un_apply_to_configuration_manager_at>
<completed_unapplying_all_commands_at> ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
dci	DCI Profile Database
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format
detail	(Optional) Show detailed information
<i>__readonly__</i>	(Optional) Read Only
TABLE_database_dci	(Optional) table show fabric database dci
<i>vrf_name</i>	(Optional)
<i>state</i>	(Optional)
<i>flags</i>	(Optional)
<i>profile</i>	(Optional)
<i>instance</i>	(Optional)
TABLE_database_dci_detail	(Optional) detail for table show fabric database dci
<i>packet_arrival_time</i>	(Optional) Profile request time
<i>sent_to_database_manager_at</i>	(Optional) Profile request sent to DCNM
<i>received_parameters_from_database_manager_at</i>	(Optional) Profile downloaded from DCNM
<i>sent_apply_to_configuration_manager_at</i>	(Optional) Profile sent to PPM to apply

<i>completed_executing_all_commands_at</i>	(Optional) Profile applied by PPM
<i>sent_un_apply_to_configuration_manager_at</i>	(Optional) Profile un-apply sent to PPM
<i>completed_unapplying_all_commands_at</i>	(Optional) Profile un-applied by PPM

**Command Mode**

- /exec

## show fabric database host

```
show fabric database host [ detail ] [ { vni <vni-id> } | { dot1q <vlan-id> } ] [ __readonly__ [
TABLE_database_host [ <trigger_source> ] [ <client_type> ] [ <got_trigger_at> ] [ <number_of_client_hosts>
] [ <number_of_associated_interfaces> ] [ <profile_be_un_applied_in_seconds> ] [
<new_vdp_requests_be_accepted_in_seconds> ] [ <recovered_profile_be_checked_for_validity_in_seconds>
] [ <mac_aging_checked_in_seconds> ] [ <sent_to_database_manager_at> ] [
<received_parameters_from_database_manager_at> ] [ <displaying_parameters_for_profile> ] [
<displaying_parameters_for_instance> ] [ <no_parameters_for_the_profile> ] [
<displaying_re_written_parameters_for_vpc_role> ] [ TABLE_parameter [ <parameter_index> ] [ <parameter>
] ] [ TABLE_static_profile <profile> <instance> <no_parameters_for_the_profile> ] [ TABLE_migrated_profile
<profile> <instance_index> <previous_profile> <previous_instance_index> ] [ TABLE_rollback_profile
<profile> <instance_index> ] [ <got_vlan_allocated_from_vlan_manager_at> ] [
<sent_apply_to_configuration_manager_at> ] [ <completed_executing_all_commands_at> ] [
<sent_to_vpc_peer_at> ] [ <completed_executing_all_commands_on_vpc_peer_at> ] [
<sent_un_apply_to_configuration_manager_at> ] [ <completed_unapplying_all_commands_at> ] ] [
TABLE_database_host_vni { [ <vni_id> ] [ <vlan_id> ] [ <state> <flag> <profile_name> <instance_name>
] [ <packet_arrival_time> <request_profile_time> <got_profile_time> <sent_to_PPM_time>
<profile_apply_time> <del_to_PPM_time> ] [ { TABLE_database_host_detail <interface> <encap> <flags>
<state> [ <vsi_id> ] [ <client> ] [ <host> ] } ] ] [ TABLE_database_host_vlan { [ <vlan_id> ] [ <vni_id> ]
[ <state> <flag> <profile_name> <instance_name> ] [ <packet_arrival_time> <request_profile_time>
<got_profile_time> <sent_to_PPM_time> <profile_apply_time> <del_to_PPM_time> ] [ {
TABLE_database_host_detail <interface> <encap> <flags> <state> [ <vsi_id> ] } ] ] ] [
TABLE_extranet_vrf_entries { <vrf> <13_vni> <state> <profile> <instance> } ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Host to profile mapping
detail	(Optional) Show hosts and interfaces
vni	(Optional) Virtual Network Identifier
vni-id	(Optional)
dot1q	(Optional) Dot1Q Encapsulation
vlan-id	(Optional)
__readonly__	(Optional) Read Only
TABLE_database_host	(Optional) table show fabric database host {dot1q   vni}
trigger_source	(Optional) TODO
client_type	(Optional) TODO

<i>got_trigger_at</i>	(Optional) TODO
<i>number_of_client_hosts</i>	(Optional) TODO
<i>number_of_associated_interfaces</i>	(Optional) TODO
<i>profile_be_un_applied_in_seconds</i>	(Optional) TODO
<i>new_vdp_requests_be_accepted_in_seconds</i>	(Optional) TODO
<i>recovered_profile_be_checked_for_validity_in_seconds</i>	(Optional) TODO
<i>mac_aging_checked_in_seconds</i>	(Optional) TODO
<i>sent_to_database_manager_at</i>	(Optional) TODO
<i>received_parameters_from_database_manager_at</i>	(Optional) TODO
<i>displaying_parameters_for_profile</i>	(Optional) TODO
<i>displaying_parameters_for_instance</i>	(Optional) TODO
<i>no_parameters_for_the_profile</i>	(Optional) TODO
<i>displaying_re_written_parameters_for_vpc_role</i>	(Optional) TODO
TABLE_parameter	(Optional) table show the parameters
<i>parameter_index</i>	(Optional) TODO
<i>parameter</i>	(Optional) TODO
TABLE_static_profile	(Optional) show static profile
<i>profile</i>	(Optional) TODO
<i>instance</i>	(Optional) TODO
<i>no_parameters_for_the_profile</i>	(Optional) TODO
TABLE_migrated_profile	(Optional) show migrated profile
<i>profile</i>	(Optional) TODO
<i>instance_index</i>	(Optional) TODO
<i>previous_profile</i>	(Optional) TODO
<i>previous_instance_index</i>	(Optional) TODO
TABLE_rollback_profile	(Optional) show rollback profile
<i>profile</i>	(Optional) TODO
<i>instance_index</i>	(Optional) TODO
<i>got_vlan_allocated_from_vlan_manager_at</i>	(Optional) TODO



<i>sent_apply_to_configuration_manager_at</i>	(Optional) TODO
<i>completed_executing_all_commands_at</i>	(Optional) TODO
<i>sent_to_vpc_peer_at</i>	(Optional) TODO
<i>completed_executing_all_commands_on_vpc_peer_at</i>	(Optional) TODO
<i>sent_un_apply_to_configuration_manager_at</i>	(Optional) TODO
<i>completed_unapplying_all_commands_at</i>	(Optional) TODO
TABLE_database_host_vni	(Optional) table show fabric database host vni based
<i>vni_id</i>	(Optional) TODO Add comment
<i>vlan_id</i>	(Optional) TODO Add comment
<i>state</i>	(Optional) TODO Add comment
<i>flag</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO
<i>instance_name</i>	(Optional) TODO
<i>packet_arrival_time</i>	(Optional) TODO
<i>request_profile_time</i>	(Optional) TODO
<i>got_profile_time</i>	(Optional) TODO
<i>sent_to_PPM_time</i>	(Optional) TODO
<i>profile_apply_time</i>	(Optional) TODO
<i>del_to_PPM_time</i>	(Optional) TODO
TABLE_database_host_detail	(Optional) table show fabric database host detail
<i>interface</i>	(Optional) TODO
<i>encap</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>vsi_id</i>	(Optional) TODO
<i>client</i>	(Optional) TODO
<i>host</i>	(Optional) TODO
TABLE_database_host_vlan	(Optional) table show fabric database host vlan based
<i>vlan_id</i>	(Optional) TODO Add comment

<i>vni_id</i>	(Optional) TODO Add comment
<i>state</i>	(Optional) TODO Add comment
<i>flag</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO
<i>instance_name</i>	(Optional) TODO
<i>packet_arrival_time</i>	(Optional) TODO
<i>request_profile_time</i>	(Optional) TODO
<i>got_profile_time</i>	(Optional) TODO
<i>sent_to_PPM_time</i>	(Optional) TODO
<i>profile_apply_time</i>	(Optional) TODO
<i>del_to_PPM_time</i>	(Optional) TODO
TABLE_database_host_detail	(Optional) table show fabric database host detail
<i>interface</i>	(Optional) TODO
<i>encap</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>vsi_id</i>	(Optional) TODO
TABLE_extranet_vrf_entries	(Optional) table extranet VRF entries
<i>vrf</i>	(Optional) TODO
<i>l3_vni</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>profile</i>	(Optional) TODO
<i>instance</i>	(Optional) TODO

### Command Mode

- /exec

## show fabric database host statistics

```
show fabric database host statistics [ __readonly__ [ TABLE_database_host_statistics { [ <data_snoop_triggers>
] [ <data_snoop_deletes> ] [ <data_snoop_responses> ] [ <vdp_association_requests> ] [
<vdp_deassociation_requests> ] [ <vdp_association_responses> ] [ <vdp_error_responses> ] [
<unsupported_interfaces> ] [ <no_profile_map_errors> ] [ <outstanding_delete_retry_add> ] [
<duplicate_add_existing_host> ] [ <hmm_api_error_cannot_add_host> ] [ <existing_profile_new_host> ] [
<profile_apply_from_vpc_peer> ] [ <profile_un_apply_from_vpc_peer> ] [ <host_apply_from_vpc_peer> ]
[ <host_un_apply_from_vpc_peer> ] [ <early_delete_cancel_add> ] [ <dhcp_requests> ] [ <dhcp_responses>
] [ <dhcp_error_responses> ] [ <adbm_requests> ] [ <adbm_responses> ] [ <adbm_error_responses> ] [
<adbm_error_requests> ] [ <adbm_db_notifications> ] [ <vnseg_no_bridge_domain> ] [
<vnseg_encap_responses> ] [ <vnseg_vni_responses> ] [ <vnseg_unknown_responses> ] [
<vnseg_bd_down_notif> ] [ <bd_mgr_requests> ] [ <bd_mgr_success_responses> ] [
<bd_mgr_failure_responses> ] [ <bd_mgr_unreserve> ] [ <bd_mgr_inconsistencies> ] [ <no_mac_on_bd_notif>
] [ <refresh_failures> ] [ <profile_apply_received> ] [ <profile_vpc_queued> ] [ <profile_local_apply_queued>
] [ <profile_local_unapply_queued> ] [ <profile_apply_sent> ] [ <profile_apply_responses> ] [
<profile_apply_success> ] [ <profile_unapply_success> ] [ <profile_apply_failure> ] [ <profile_commands>
] [ <profile_error_incomplete_configs> ] [ <profile_api_error> ] [ <profile_unapply_sent> ] [
<profile_top_queue_adds> ] [ <profile_high_queue_adds> ] [ <profile_low_queue_adds> ] [
<profile_unapply_failure> ] [ <outstanding_vlan_requests> ] [ <outstanding_adbm_requests> ] [
<outstanding_profile_applies> ] [ <outstanding_vpc_profile_applies> ] [ <node_recon_pending> ] [
<node_recon_attempts> ] [ <node_recon_failures> ] } ] ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
statistics	Statistics - Mostly shows non-zero values
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_database_host_statistics</i>	(Optional) table show fabric database host statistics
<i>data_snoop_triggers</i>	(Optional) TODO
<i>data_snoop_deletes</i>	(Optional) TODO
<i>data_snoop_responses</i>	(Optional) TODO
<i>vdp_association_requests</i>	(Optional) TODO
<i>vdp_deassociation_requests</i>	(Optional) TODO
<i>vdp_association_responses</i>	(Optional) TODO
<i>vdp_error_responses</i>	(Optional) TODO

<i>unsupported_interfaces</i>	(Optional) TODO
<i>no_profile_map_errors</i>	(Optional) TODO
<i>outstanding_delete_retry_add</i>	(Optional) TODO
<i>duplicate_add_existing_host</i>	(Optional) TODO
<i>hmm_api_error_cannot_add_host</i>	(Optional) TODO
<i>existing_profile_new_host</i>	(Optional) TODO
<i>profile_apply_from_vpc_peer</i>	(Optional) TODO
<i>profile_un_apply_from_vpc_peer</i>	(Optional) TODO
<i>host_apply_from_vpc_peer</i>	(Optional) TODO
<i>host_un_apply_from_vpc_peer</i>	(Optional) TODO
<i>early_delete_cancel_add</i>	(Optional) TODO
<i>dhcp_requests</i>	(Optional) TODO
<i>dhcp_responses</i>	(Optional) TODO
<i>dhcp_error_responses</i>	(Optional) TODO
<i>adbm_requests</i>	(Optional) TODO
<i>adbm_responses</i>	(Optional) TODO
<i>adbm_error_responses</i>	(Optional) TODO
<i>adbm_error_requests</i>	(Optional) TODO
<i>adbm_db_notifications</i>	(Optional) TODO
<i>vnseg_no_bridge_domain</i>	(Optional) TODO
<i>vnseg_encap_responses</i>	(Optional) TODO
<i>vnseg_vni_responses</i>	(Optional) TODO
<i>vnseg_unknown_responses</i>	(Optional) TODO
<i>vnseg_bd_down_notif</i>	(Optional) TODO
<i>bd_mgr_requests</i>	(Optional) TODO
<i>bd_mgr_success_responses</i>	(Optional) TODO
<i>bd_mgr_failure_responses</i>	(Optional) TODO
<i>bd_mgr_unreserve</i>	(Optional) TODO
<i>bd_mgr_inconsistencies</i>	(Optional) TODO

<i>no_mac_on_bd_notif</i>	(Optional) TODO
<i>refresh_failures</i>	(Optional) TODO
<i>profile_apply_received</i>	(Optional) TODO
<i>profile_vpc_queued</i>	(Optional) TODO
<i>profile_local_apply_queued</i>	(Optional) TODO
<i>profile_local_unapply_queued</i>	(Optional) TODO
<i>profile_apply_sent</i>	(Optional) TODO
<i>profile_apply_responses</i>	(Optional) TODO
<i>profile_apply_success</i>	(Optional) TODO
<i>profile_unapply_success</i>	(Optional) TODO
<i>profile_apply_failure</i>	(Optional) TODO
<i>profile_commands</i>	(Optional) TODO
<i>profile_error_incomplete_configs</i>	(Optional) TODO
<i>profile_api_error</i>	(Optional) TODO
<i>profile_unapply_sent</i>	(Optional) TODO
<i>profile_top_queue_adds</i>	(Optional) TODO
<i>profile_high_queue_adds</i>	(Optional) TODO
<i>profile_low_queue_adds</i>	(Optional) TODO
<i>profile_unapply_failure</i>	(Optional) TODO
<i>outstanding_vlan_requests</i>	(Optional) TODO
<i>outstanding_adbm_requests</i>	(Optional) TODO
<i>outstanding_profile_applies</i>	(Optional) TODO
<i>outstanding_vpc_profile_applies</i>	(Optional) TODO
<i>node_recon_pending</i>	(Optional) TODO
<i>node_recon_attempts</i>	(Optional) TODO
<i>node_recon_failures</i>	(Optional) TODO

**Command Mode**

- /exec

## show fabric database host summary

```
show fabric database host summary [ __readonly__ [ TABLE_database_host_summary {
<number_of_instances_applied> <number_of_client_hosts> <recovery_timeout_minute>
<cleanup_timeout_minute> <client_add_suppression_timeout_minute> <mac_aging_timeout_minute>
<autoid_support> } ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
summary	Summary
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_database_host_summary</i>	(Optional) table show fabric database host summary
<i>number_of_instances_applied</i>	(Optional) TODO
<i>number_of_client_hosts</i>	(Optional) TODO
<i>recovery_timeout_minute</i>	(Optional) TODO
<i>cleanup_timeout_minute</i>	(Optional) TODO
<i>client_add_suppression_timeout_minute</i>	(Optional) TODO
<i>mac_aging_timeout_minute</i>	(Optional) TODO
<i>autoid_support</i>	(Optional) List of supported auto-generate ids

### Command Mode

- /exec

## show fabric database profile-map

```
show fabric database profile-map { global | [ <id> | interface <interface-id> ] } [ __readonly__ [
TABLE_database_profile_map { <map> <proto> <vni> <dot1q> <flags> <profile_name> } ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
profile-map	Profile Map
global	Global profile (apply to all interfaces)
<i>id</i>	(Optional) Profile Map ID
interface	(Optional) Specified interface to display
<i>interface-id</i>	(Optional) Name of interface
<i>__readonly__</i>	(Optional) Read Only
TABLE_database_profile_map	(Optional) table show fabric database profile-map
<i>map</i>	(Optional) TODO
<i>proto</i>	(Optional) TODO
<i>vni</i>	(Optional) TODO
<i>dot1q</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO

### Command Mode

- /exec

## show fabric database static-host

```
show fabric database static-host [ __readonly__ { TABLE_database_static_host <host_key> <interface>
<state> <retry_delay> <retry_attempts> } ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
static-host	Configured Static Hosts
__readonly__	(Optional) Read Only
TABLE_database_static_host	(Optional) table show fabric database static-host
<i>host_key</i>	(Optional) static-host key
<i>interface</i>	(Optional) interface name
<i>state</i>	(Optional) static-host state
<i>retry_delay</i>	(Optional) seconds until next retry
<i>retry_attempts</i>	(Optional) cumulative retry attempts

### Command Mode

- /exec



## show fabric database statistics

```
show fabric database statistics [ type { network | profile | cabling | partition | bl-dci | host } ] [ __readonly__
{ TABLE_types <dbtype> <requests> <dispatched> <not_dispatched> <re_dispatched> } [ { TABLE_dbs
<is_active> <type> <prot> <serverdb> [ <reqs> <ok> <nores> <err> <tmout> <pend> ] } ] { LastPollTime
<poll_time> } { LastUpdateTime <update_time> } [ { TABLE_updates <update_type> <update_status> } ]
]
```

### Syntax Description

show	Show running system information
fabric	Fabric
database	Show Fabric Database
statistics	Show database statistics
type	(Optional) Enter database type
network	(Optional) Network Database
profile	(Optional) Port or Switch Profile Database
cabling	(Optional) Cable Management Database
partition	(Optional) Partition Database
bl-dci	(Optional) Border Leaf - DCI
host	(Optional) Host
__readonly__	(Optional)
TABLE_types	(Optional) totals by type
<i>dbtype</i>	(Optional) type of database
<i>requests</i>	(Optional) number of requests
<i>dispatched</i>	(Optional) number dispatched
<i>not_dispatched</i>	(Optional) number not dispatched
<i>re_dispatched</i>	(Optional) number re-dispatched
TABLE_dbs	(Optional) per-database stats
<i>is_active</i>	(Optional) active/inactive
<i>type</i>	(Optional) database type
<i>prot</i>	(Optional) database protocol
<i>serverdb</i>	(Optional) server database

<i>reqs</i>	(Optional) requests
<i>ok</i>	(Optional) OK
<i>nores</i>	(Optional) nores
<i>err</i>	(Optional) err
<i>tmout</i>	(Optional) tmout
<i>pend</i>	(Optional) pend
LastPollTime	(Optional) last poll time
<i>poll_time</i>	(Optional) poll time
LastUpdateTime	(Optional) last update time for db status change
<i>update_time</i>	(Optional) update time
TABLE_updates	(Optional) totals ty type
<i>update_type</i>	(Optional) db type
<i>update_status</i>	(Optional) db status

### Command Mode

- /exec

## show fabric forwarding host-db

```
show fabric forwarding host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ __readonly__ [
TABLE_forwarding_host_db_vrf { <vrf> <vrf_id> <vrf_state> <vrf_reason> <vni_id> <refcount>
<conversational_learning> [ TABLE_limit_type <limit_type> <enable> <threshold> <action> ] [ TABLE_ipv4
<address_family> <vrf> <table_id> <table_state> <refcount> <local_hosts> <remote_hosts> <aggregates>
[ TABLE_aggregate_list <aggregate_subnet_prefix_list> <aggregate_subnet_prefix_state> ] ] [ TABLE_ipv6
<address_family> <vrf> <table_id> <table_state> <refcount> <local_hosts> <remote_hosts> <aggregates>
[ TABLE_aggregate_list <aggregate_subnet_prefix_list> <aggregate_subnet_prefix_state> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
host-db	Host Database info
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional) Read Only
TABLE_forwarding_host_db_vrf	(Optional) table show fabric forwarding host-db vrf
<i>vrf</i>	(Optional) TODO
<i>vrf_id</i>	(Optional) TODO
<i>vrf_state</i>	(Optional) TODO
<i>vrf_reason</i>	(Optional) TODO
<i>vni_id</i>	(Optional) TODO
<i>refcount</i>	(Optional) TODO
<i>conversational_learning</i>	(Optional) TODO
TABLE_limit_type	(Optional) table for limit type
<i>limit_type</i>	(Optional) TODO
<i>enable</i>	(Optional) TODO
<i>threshold</i>	(Optional) TODO
<i>action</i>	(Optional) TODO

TABLE_ipv4	(Optional) Information for address family IPv4
<i>address_family</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>table_id</i>	(Optional) TODO
<i>table_state</i>	(Optional) TODO
<i>refcount</i>	(Optional) TODO
<i>local_hosts</i>	(Optional) TODO
<i>remote_hosts</i>	(Optional) TODO
<i>aggregates</i>	(Optional) TODO
TABLE_aggregate_list	(Optional) table for aggregate subnet prefix list
<i>aggregate_subnet_prefix_list</i>	(Optional) TODO
TABLE_ipv6	(Optional) Information for address family IPv6
<i>address_family</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>table_id</i>	(Optional) TODO
<i>table_state</i>	(Optional) TODO
<i>refcount</i>	(Optional) TODO
<i>local_hosts</i>	(Optional) TODO
<i>remote_hosts</i>	(Optional) TODO
<i>aggregates</i>	(Optional) TODO
TABLE_aggregate_list	(Optional) table for aggregate subnet prefix list
<i>aggregate_subnet_prefix_list</i>	(Optional) TODO
<i>aggregate_subnet_prefix_state</i>	(Optional) TODO

### Command Mode

- /exec

# show fabric forwarding ip local

```
show fabric forwarding ip { local-host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ <ip-prefix>
] } [ __readonly__ [ TABLE_forwarding_ip_local_host_db_vrf { <hmm_host> <vrf> <status_in> {
TABLE_hosts <host> <mac_address> <svi> <flags_0x> <physical_interface> <status> } } ] ]
```

## Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
ip	Display IP information
local-host-db	HMM Local Host Database
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>ip-prefix</i>	(Optional) IP prefix in CIDR format
<i>__readonly__</i>	(Optional) Read Only
TABLE_forwarding_ip_local_host_db_vrf	(Optional) table show fabric forwarding ip local-host-db vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>mac_address</i>	(Optional) TODO
<i>svi</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO
<i>physical_interface</i>	(Optional) TODO
<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned

## Command Mode

- /exec

## show fabric forwarding ipv6 local

```
show fabric forwarding ipv6 { local-host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ <ipv6-prefix>
] } [ __readonly__ [ TABLE_forwarding_ipv6_local_host_db_vrf { <hmm_host> <vrf> <status_in> {
TABLE_hosts <host> <mac_address> <svi> <flags_0x> <physical_interface> <status> } } ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
ipv6	Display IPv6 information
local-host-db	HMM Local Host Database
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional) Read Only
TABLE_forwarding_ipv6_local_host_db_vrf	(Optional) table show fabric forwarding ipv6 local-host-db vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>mac_address</i>	(Optional) TODO
<i>svi</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO
<i>physical_interface</i>	(Optional) TODO
<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned

### Command Mode

- /exec

## show fabric multicast globals

```
show fabric multicast globals [ __readonly__ <pruning> <switch_role> <fabric_control_seg>
<peer_fabric_ctrl_addr> <advertise_vpc_rpf_routes> <created_vni_list> <fwd_encap> <mrrib_sync_delay>
<bgp_eor_rcvd> <bgp_eor_rcvd_ts> <cli_done_rcvd> <cli_done_rcvd_ts> ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
globals	show the global settings
<i>__readonly__</i>	(Optional)
<i>pruning</i>	(Optional)
<i>switch_role</i>	(Optional)
<i>fabric_control_seg</i>	(Optional)
<i>peer_fabric_ctrl_addr</i>	(Optional)
<i>advertise_vpc_rpf_routes</i>	(Optional)
<i>created_vni_list</i>	(Optional)
<i>fwd_encap</i>	(Optional)
<i>mrrib_sync_delay</i>	(Optional)
<i>bgp_eor_rcvd</i>	(Optional)
<i>bgp_eor_rcvd_ts</i>	(Optional)
<i>cli_done_rcvd</i>	(Optional)
<i>cli_done_rcvd_ts</i>	(Optional)

### Command Mode

- /exec

## show fabric multicast ipv4 l2 vni

```
show fabric multicast { ipv4 | ipv6 } { l2-mroute } vni { <vni-id> | all } [ __readonly__ TABLE_vni <vni-id>
[ TABLE_mroute <mroute_desc> [ TABLE_fabric <fabric_node_addr> ] ] ]
```

### Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
ipv4	Display IP information
ipv6	Display IPv6 information
l2-mroute	display l2-mroute status
vni	Virtual Network Identifier
<i>vni-id</i>	VNI number
all	Display all L2 VNI NGMVPN is aware of
__readonly__	(Optional)
TABLE_vni	(Optional)
<i>vni-id</i>	(Optional)
TABLE_mroute	(Optional)
<i>mroute_desc</i>	(Optional)
TABLE_fabric	(Optional)
<i>fabric_node_addr</i>	(Optional)

### Command Mode

- /exec



# show fabric multicast statistics

show fabric multicast [ internal ] statistics

## Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
internal	(Optional) Commands for internal use
statistics	Show the state and size of the buffer

## Command Mode

- /exec

# show fabric multicast vrf

```
show fabric multicast vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_vrf
<context_name><context_id><vprime_iod><vnid> } ]
```

## Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs NGMVPN is aware of
__readonly__	(Optional)
TABLE_vrf	(Optional)

## Command Mode

- /exec

## show fc2 bind

```
show fc2 bind [ __readonly__ { TABLE_fc2bind <SOCKET> <FLAGS> <NLEVEL> <RULE> <SINDEX>
<VSAN> <D_ID> <MASK> <TYPE> <SUBTYPE> <M_VALUES> } ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
bind	show fc2 socket bindings
__readonly__	(Optional) Read only
TABLE_fc2bind	(Optional) show fc2 bind
<i>SOCKET</i>	(Optional) socket
<i>FLAGS</i>	(Optional) flags
<i>NLEVEL</i>	(Optional) nlevel
<i>RULE</i>	(Optional) rule
<i>SINDEX</i>	(Optional) sidnex
<i>VSAN</i>	(Optional) vsan
<i>D_ID</i>	(Optional) d_id
<i>MASK</i>	(Optional) mask
<i>TYPE</i>	(Optional) type
<i>SUBTYPE</i>	(Optional) subtype
<i>M_VALUES</i>	(Optional) m_values

### Command Mode

- /exec

# show fc2 classf

```
show fc2 classf [ __readonly__ { TABLE_fc2classf <HIX> <VSAN> <S_ID> <D_ID> <IFIDX> <R_A_TOV>
<E_D_TOV> <F-SO> <RC> <RS> <CS> <EE> <2-SO> <RS> <3-SO> <RS> <EECNT> <TCCNT> <FCNT>
<REFCNT> } ]
```

## Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
classf	show fc2 classf sessions
__readonly__	(Optional) Read only
TABLE_fc2classf	(Optional) show fc2 classf
HIX	(Optional) hix
VSAN	(Optional) vsan
S_ID	(Optional) sid
D_ID	(Optional) did
IFIDX	(Optional) ifidx
R_A_TOV	(Optional) r_a_tov
E_D_TOV	(Optional) e_d_tov
F-SO	(Optional) f-so
RC	(Optional) rc
RS	(Optional) rs
CS	(Optional) cs
EE	(Optional) ee
2-SO	(Optional) 2-so
RS	(Optional) rs
3-SO	(Optional) 3-so
RS	(Optional) rs
EECNT	(Optional) eecnt
TCCNT	(Optional) tcnt
FCNT	(Optional) fcnt

<i>REFCNT</i>	(Optional) refcnt
---------------	-------------------

**Command Mode**

- /exec

## show fc2 exchange

```
show fc2 exchange [ __readonly__ { TABLE_ExchngInfo [ <ECB_INUSE> ] [ <ECB_DROPPED> ] [
<ECB_TOTAL> ] [ <ECB_MAX> ] } [ TABLE_fc2exchange <HIX> <VSAN> <X_ID> <OX_ID> <RX_ID>
<O_ID> <R_ID> <ESTAT> <STATE> <SOCKET> <DIFINDEX> <CS> <TYPE> <SEQID> <TCNT>
<RCNT> <LO> <HI> <SSTAT> <LOGIN> ] ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
exchange	show fc2 active exchanges
<i>__readonly__</i>	(Optional) Read only
TABLE_ExchngInfo	(Optional) ecb info
<i>ECB_INUSE</i>	(Optional) ecb in use
<i>ECB_DROPPED</i>	(Optional) ecb dropped
<i>ECB_TOTAL</i>	(Optional) ecb total
<i>ECB_MAX</i>	(Optional) ecb threshold
TABLE_fc2exchange	(Optional) show fc2 exchange
<i>HIX</i>	(Optional) hix
<i>VSAN</i>	(Optional) vsan
<i>X_ID</i>	(Optional) xid
<i>OX_ID</i>	(Optional) oxid
<i>RX_ID</i>	(Optional) rxid
<i>O_ID</i>	(Optional) o_id
<i>R_ID</i>	(Optional) r_id
<i>ESTAT</i>	(Optional) estat
<i>STATE</i>	(Optional) state
<i>SOCKET</i>	(Optional) socket
<i>DIFINDEX</i>	(Optional) dIFINDEX
<i>CS</i>	(Optional) cs
<i>TYPE</i>	(Optional) type

<i>SEQID</i>	(Optional) seqid
<i>TCNT</i>	(Optional) tcnt
<i>RCNT</i>	(Optional) rcnt
<i>LO</i>	(Optional) lo
<i>HI</i>	(Optional) hi
<i>SSTAT</i>	(Optional) sstat
<i>LOGIN</i>	(Optional) login

**Command Mode**

- /exec

# show fc2 exchresp

```
show fc2 exchresp [ __readonly__ { TABLE_fc2exchresp <HIX> <VSAN> <OX_ID> <S_ID> <CS>
<SIFINDEX> <OX_ID2> <RX_ID2> <O_ID> <R_ID> <ESTAT> <STATE> <SOCKET> <TYPE> <SEQID>
<TCNT> <RCNT> <LO> <HI> <SSTAT> } ]
```

## Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
exchresp	show fc2 active responder exchanges
__readonly__	(Optional) Read only
TABLE_fc2exchresp	(Optional) show fc2 exchresp
HIX	(Optional) hix
VSAN	(Optional) vsan
OX_ID	(Optional) oxid
S_ID	(Optional) sid
CS	(Optional) cs
SIFINDEX	(Optional) sifindex
OX_ID2	(Optional) oxid
RX_ID2	(Optional) rxid
O_ID	(Optional) oid
R_ID	(Optional) rid
ESTAT	(Optional) estat
STATE	(Optional) state
SOCKET	(Optional) socket
TYPE	(Optional) type
SEQID	(Optional) seqid
TCNT	(Optional) tcnt
RCNT	(Optional) rcnt
LO	(Optional) lo
HI	(Optional) hi



<i>SSTAT</i>	(Optional) sstat
--------------	------------------

**Command Mode**

- /exec

# show fc2 flogi

```
show fc2 flogi [ __readonly__ { TABLE_fc2flogi <HIX> <VSAN> <S_ID> <FLOGI> <IFINDEX> <TYPE>
} ]
```

## Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
flogi	show fc2 flogi table
__readonly__	(Optional) Read only
TABLE_fc2flogi	(Optional) show fc2 flogi
<i>HIX</i>	(Optional) hix
<i>VSAN</i>	(Optional) vsan
<i>S_ID</i>	(Optional) sid
<i>FLOGI</i>	(Optional) flogi
<i>IFINDEX</i>	(Optional) ifindex
<i>TYPE</i>	(Optional) type

## Command Mode

- /exec

## show fc2 nport

```
show fc2 nport [ __readonly__ { TABLE_fc2nport <REF> <VSAN> <D_ID> <MASK> <FL> <ST>
<IFINDEX> <CF> <TC> <2-SO> <IC> <RC> <RS> <CS> <EE> <3-SO> <3-SO-IC> <3-SO-RC> <3-SO-RS>
<3-SO-CS> <3-SO-EE> } ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
nport	show fc2 local nports
__readonly__	(Optional) Read only
TABLE_fc2nport	(Optional) show fc2 nport
<i>REF</i>	(Optional) ref
<i>VSAN</i>	(Optional) vsan
<i>D_ID</i>	(Optional) did
<i>MASK</i>	(Optional) mask
<i>FL</i>	(Optional) fl
<i>ST</i>	(Optional) st
<i>IFINDEX</i>	(Optional) ifindex
<i>CF</i>	(Optional) cf
<i>TC</i>	(Optional) tc
<i>2-SO</i>	(Optional) 2so
<i>IC</i>	(Optional) ic
<i>RC</i>	(Optional) rc
<i>RS</i>	(Optional) rs
<i>CS</i>	(Optional) cs
<i>EE</i>	(Optional) ee
<i>3-SO</i>	(Optional) 3so
<i>3-SO-IC</i>	(Optional) 3so-ic
<i>3-SO-RC</i>	(Optional) 3so-rc
<i>3-SO-RS</i>	(Optional) 3so-rs

<i>3-SO-CS</i>	(Optional) 3so-cs
<i>3-SO-EE</i>	(Optional) 3so-ee

**Command Mode**

- /exec

## show fc2 plogi

```
show fc2 plogi [ __readonly__ { TABLE_fc2plogi <HIX> <ADDRESS> <VSAN> <S_ID> <D_ID>
<IF_INDEX> <FL> <STATE> <CF> <TC> <2-SO> <IC> <RC> <RS> <CS> <EE> <3-SO> <3SO_IC>
<3SO_RC> <3SO_RS> <3SO_CS> <3SO_EE> <EECNT> <TCCNT> <2CNT> <3CNT> <REFCNT> } ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
plogi	show fc2 plogi sessions
__readonly__	(Optional) Read only
TABLE_fc2plogi	(Optional) show fc2 plogi
<i>HIX</i>	(Optional) hix
<i>ADDRESS</i>	(Optional) address
<i>VSAN</i>	(Optional) vsan
<i>S_ID</i>	(Optional) sid
<i>D_ID</i>	(Optional) did
<i>IF_INDEX</i>	(Optional) ifindex
<i>FL</i>	(Optional) fl
<i>STATE</i>	(Optional) state
<i>CF</i>	(Optional) cf
<i>TC</i>	(Optional) tc
<i>2-SO</i>	(Optional) 2so
<i>IC</i>	(Optional) ic
<i>RC</i>	(Optional) rc
<i>RS</i>	(Optional) rs
<i>CS</i>	(Optional) cs
<i>EE</i>	(Optional) ee
<i>3-SO</i>	(Optional) 3so
<i>3SO_IC</i>	(Optional) ic
<i>3SO_RC</i>	(Optional) rc

<i>3SO_RS</i>	(Optional) rs
<i>3SO_CS</i>	(Optional) cs
<i>3SO_EE</i>	(Optional) ee
<i>EECNT</i>	(Optional) eecnt
<i>TCCNT</i>	(Optional) TCCNT
<i>2CNT</i>	(Optional) 2cnt
<i>3CNT</i>	(Optional) 3cnt
<i>REFCNT</i>	(Optional) refcnt

**Command Mode**

- /exec

# show fc2 plogi\_pwwn

```
show fc2 plogi_pwwn [ __readonly__ { TABLE_fc2plogi_pwwn <HIX> <ADDRESS> <VSAN> <S_ID>
<D_ID> <IFINDEX> <FL> <STATE> <PWWN> } ]
```

## Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
plogi_pwwn	show fc2 plogi pwwn entries
__readonly__	(Optional) Read only
TABLE_fc2plogi_pwwn	(Optional) show fc2 plogi_pwwn
<i>HIX</i>	(Optional) hix
<i>ADDRESS</i>	(Optional) address
<i>VSAN</i>	(Optional) vsan
<i>S_ID</i>	(Optional) s_id
<i>D_ID</i>	(Optional) d_id
<i>IFINDEX</i>	(Optional) ifindex
<i>FL</i>	(Optional) fl
<i>STATE</i>	(Optional) state
<i>PWWN</i>	(Optional) pwwn

## Command Mode

- /exec

## show fc2 port brief

```
show fc2 port brief [ __readonly__ { TABLE_fc2portbrief <BAD_FRAME_RX> } [ TABLE_FCSTAT <IX>
<ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_LBSTAT
<IX> <ST> <MOD> <EMUL> <TXLBPCKTS> <TXLBDROP> <RXLBPCKTS> <RXLBDROP> ] [
TABLE_VFCSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS>
<RXDROP> ] [ TABLE_VFCPOSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR>
<RXPKTS> <RXDROP> ] [ TABLE_VFCslotstat <IX> <ST> <MOD> <EMUL> <TXPKTS>
<TXDROP> <TXERR> <RXPKTS> <RXDROP> ] ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
port	show fc2 physical port table
brief	display only active port counters
__readonly__	(Optional) Read only
TABLE_fc2portbrief	(Optional) bad frames received
<i>BAD_FRAME_RX</i>	(Optional) fc2 bad frames rx
TABLE_FCSTAT	(Optional) FC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_LBSTAT	(Optional) LB Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul



<i>TXLBPKTS</i>	(Optional) tx lb packets
<i>TXLBDROP</i>	(Optional) tx lb drops
<i>RXLBPKTS</i>	(Optional) rx lb packets
<i>RXLBDROP</i>	(Optional) rx lb drop
TABLE_VFCSTAT	(Optional) VFC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrornt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCPOSTAT	(Optional) VFC po Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrornt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCSLOTSTAT	(Optional) VFC slot Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul

<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop

**Command Mode**

- /exec

## show fc2 port drops

```
show fc2 port drops [ __readonly__ [ TABLE_FCSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS>
<TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_LBSTAT <IX> <ST> <MOD> <EMUL>
<TXLBPCKTS> <TXLBDROP> <RXLBPCKTS> <RXLBDROP> ] [ TABLE_VFCSTAT <IX> <ST> <MOD>
<EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_VFCPOSTAT <IX>
<ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [
TABLE_VFCSLOTSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS>
<RXDROP> ] ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
port	show fc2 physical port table
drops	display active port drop counters
__readonly__	(Optional) Read only
TABLE_FCSTAT	(Optional) FC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_LBSTAT	(Optional) LB Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXLBPCKTS</i>	(Optional) tx lb packets
<i>TXLBDROP</i>	(Optional) tx lb drops

<i>RXLBPKTS</i>	(Optional) rx lb packets
<i>RXLBDROP</i>	(Optional) rx lb drop
TABLE_VFCSTAT	(Optional) VFC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCPOSTAT	(Optional) VFC po Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCSLOTSTAT	(Optional) VFC slot Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops

<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop

**Command Mode**

- /exec

## show fc2 port state

```
show fc2 port state [ __readonly__ [ TABLE_FCPORTSTATE [ <PORT_STRING> ] [ <PORT_NO> ] [
<UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [ <DOWN_STRING>
] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] [ TABLE_VFCPORTSTATE [ <PORT_STRING>
] [ <PORT_NO> ] [ <UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME>
] + [ <DOWN_STRING> ] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] [
TABLE_VFCPOPORTSTATE [ <PORT_STRING> ] [ <PORT_NO> ] [ <UP_DOWN_CNTR> ] [ [
<UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [ <DOWN_STRING> ] + [ <DOWN_TIME>
] + [ <DOWN_REFTIME> ] + ] ] ] [ TABLE_VFCPORTSLOTSTATE [ <PORT_STRING> ] [ <PORT_NO>
] [ <UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [
<DOWN_STRING> ] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
port	show fc2 physical port table
state	display port state history
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_FCPORTSTATE</i>	(Optional) fc port state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up
<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from
<i>TABLE_VFCPORTSTATE</i>	(Optional) vfc port state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up

<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from
TABLE_VFCPOPORTSTATE	(Optional) vfc po port state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up
<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from
TABLE_VFCPORTSLOTSTATE	(Optional) vfc port slot state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up
<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from

**Command Mode**

- /exec

# show fc2 socket

```
show fc2 socket [ __readonly__ { TABLE_fc2socket <SOCKET> <REFCNT> <PROTOCOL> <FLAGS>
<PID> <RCVBUF> <RMEM_USED> <QLEN> <NOTSK> } ]
```

## Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
socket	show fc2 active sockets
__readonly__	(Optional) Read only
TABLE_fc2socket	(Optional) show fc2 socket
<i>SOCKET</i>	(Optional) socket
<i>REFCNT</i>	(Optional) refcnt
<i>PROTOCOL</i>	(Optional) protocol
<i>FLAGS</i>	(Optional) flags
<i>PID</i>	(Optional) pid
<i>RCVBUF</i>	(Optional) rcvbuf
<i>RMEM_USED</i>	(Optional) rmem_used
<i>QLEN</i>	(Optional) qlen
<i>NOTSK</i>	(Optional) not_sk

## Command Mode

- /exec



## show fc2 sockexch

```
show fc2 sockexch [ __readonly__ { TABLE_fc2sockexch <SOCKET> <VSAN> <X_ID> <OX_ID>
<RX_ID> <O_ID> <R_ID> <ESTAT> <STATE> <CS> <TYPE> <SK> } ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
sockexch	show fc2 active exchanges for each socket
__readonly__	(Optional) Read only
TABLE_fc2sockexch	(Optional) show fc2 sockexch
<i>SOCKET</i>	(Optional) socket
<i>VSAN</i>	(Optional) vsan
<i>X_ID</i>	(Optional) x_id
<i>OX_ID</i>	(Optional) oxid
<i>RX_ID</i>	(Optional) rxid
<i>O_ID</i>	(Optional) o_id
<i>R_ID</i>	(Optional) r_id
<i>ESTAT</i>	(Optional) estat
<i>STATE</i>	(Optional) state
<i>CS</i>	(Optional) cs
<i>TYPE</i>	(Optional) type
<i>SK</i>	(Optional) sk

### Command Mode

- /exec

## show fc2 socknotify

```
show fc2 socknotify [ __readonly__ { TABLE_fc2socknotify <SOCKET> <ADDRESS> <REF> <VSAN>
<D_ID> <MASK> <FL> <ST> <IFINDEX> } ]
```

### Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
socknotify	show fc2 local nport plogi/logo notifications per each socket
__readonly__	(Optional) Read only
TABLE_fc2socknotify	(Optional) show fc2 socknotify
SOCKET	(Optional) socket
ADDRESS	(Optional) address
REF	(Optional) ref
VSAN	(Optional) vsan
D_ID	(Optional) d_id
MASK	(Optional) mask
FL	(Optional) fl
ST	(Optional) st
IFINDEX	(Optional) ifindex

### Command Mode

- /exec

# show fc2 socknport

```
show fc2 socknport [ __readonly__ { TABLE_fc2socknport <SOCKET> <ADDRESS> <REF> <VSAN>
<D_ID> <MASK> <FL> <ST> <IFINDEX> } ]
```

## Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
socknport	show fc2 local nports per each socket
__readonly__	(Optional) Read only
TABLE_fc2socknport	(Optional) show fc2 socknport
<i>SOCKET</i>	(Optional) socket
<i>ADDRESS</i>	(Optional) address
<i>REF</i>	(Optional) ref
<i>VSAN</i>	(Optional) vsan
<i>D_ID</i>	(Optional) d_id
<i>MASK</i>	(Optional) mask
<i>FL</i>	(Optional) fl
<i>ST</i>	(Optional) st
<i>IFINDEX</i>	(Optional) ifindex

## Command Mode

- /exec

# show fc2 vsan

```
show fc2 vsan [ __readonly__ { TABLE_fc2vsan <VSAN> <X_ID> <E_D_TOV> <R_A_TOV> <WWN>
<IOP_MODE> } ]
```

## Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
vsan	show fc2 vsan table
__readonly__	(Optional) Read only
TABLE_fc2vsan	(Optional) show fc2 vsan
VSAN	(Optional) vsan
X_ID	(Optional) xid
E_D_TOV	(Optional) e_d_tov
R_A_TOV	(Optional) r_a_tov
WWN	(Optional) wwn
IOP_MODE	(Optional) iop_mode

## Command Mode

- /exec

# show fcdroplateny

```
show fcdroplateny [ { network | switch } ] [ __readonly__ [ <switch_latency> ] [ <global_network_latency> ] ] [ TABLE_vsan_network_latency { <vsan-no> <network-latency> } ] ]
```

## Syntax Description

show	Show running system information
fcdroplateny	show switch or network latency
network	(Optional) network latency in milliseconds
switch	(Optional) switch latency in milliseconds
__readonly__	(Optional)
<i>switch_latency</i>	(Optional) Switch latency value
<i>global_network_latency</i>	(Optional) global network latency value
TABLE_vsan_network_latency	(Optional) VSAN specific network latency settings
<i>vsan-no</i>	(Optional) vsan number
<i>network-latency</i>	(Optional) VSAN specific network latency

## Command Mode

- /exec

## show fcoe-npv issu-impact

```
show fcoe-npv issu-impact [ __readonly__ { <is_impact> } [ TABLE_interface <vfc_intf> <fc_id> ] ]
```

### Syntax Description

show	Show running system information
fcoe-npv	feature fcoe-npv
issu-impact	Show feature fcoe-npv config issues if attempting to do non-disruptive ISSU
<i>__readonly__</i>	(Optional) Read Only
<i>is_impact</i>	(Optional) show issu impact
TABLE_interface	(Optional) show fcoe database
<i>vfc_intf</i>	(Optional) vfc port Interface index
<i>fc_id</i>	(Optional) vfc port FCID

### Command Mode

- /exec

# show fcoe

```
show fcoe [ __readonly__ { TABLE_fcf <fcf_if_index> <fcf_mac> <fc_map> <fcf_priority>
<fka_Advertisement> } [ TABLE_vfc <vfc_name> <vfcf_mac> ] ]
```

## Syntax Description

show	Show running system information
fcoe	Show FCOE paramaters
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_fcf</i>	(Optional) fcf table
<i>fcf_if_index</i>	(Optional) fcf if index
<i>fcf_mac</i>	(Optional) fcf mac
<i>fc_map</i>	(Optional) fc map
<i>fcf_priority</i>	(Optional) fcf priority
<i>fka_Advertisement</i>	(Optional) fka Advertisement
<i>TABLE_vfc</i>	(Optional) vfc details table for sup
<i>vfc_name</i>	(Optional) vfc name
<i>vfcf_mac</i>	(Optional) vfcf mac

## Command Mode

- /exec

# show fcoe database

```
show fcoe database [ __readonly__ { TABLE_interface <interface> [ <fcid> ] [ <port_name> ] <mac_address>
} <flogi_count> [ TABLE_veport <interface> <mac_address> <vsan> ] ]
```

## Syntax Description

show	Show running system information
fcoe	Show FCOE paramaters
database	Show FCOE database
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show fcoe database
<i>fcid</i>	(Optional) fcid
<i>port_name</i>	(Optional) port name
<i>mac_address</i>	(Optional) mac address
<i>interface</i>	(Optional) ve port Interface index
TABLE_veport	(Optional) ve port details
<i>mac_address</i>	(Optional) ve port mac address
<i>flogi_count</i>	(Optional) flogi_count
<i>vsan</i>	(Optional) ve port VSAN trunking

## Command Mode

- /exec



# show fctimer

```
show fctimer [ __readonly__ { <F_S_TOV> <D_S_TOV> <E_D_TOV> <R_A_TOV> } ]
```

## Syntax Description

show	show running system information
fctimer	show Fibre Channel timers
__readonly__	(Optional) Read only
<i>F_S_TOV</i>	(Optional) F_S_TOV
<i>D_S_TOV</i>	(Optional) D_S_TOV
<i>E_D_TOV</i>	(Optional) E_D_TOV
<i>R_A_TOV</i>	(Optional) R_A_TOV

## Command Mode

- /exec

## show fctimer D\_S\_TOV

```
show fctimer D_S_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_D_S_TOV [ <vsan-no> ] <D_S_TOV> ] [
<non-exist-vsan> ] ]
```

### Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
D_S_TOV	D_S_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
<i>__readonly__</i>	(Optional)
TABLE_D_S_TOV	(Optional) table D_S_TOV
<i>vsan-no</i>	(Optional) vsan number
<i>D_S_TOV</i>	(Optional) D_S_TOV
<i>non-exist-<i>vsan</i></i>	(Optional) non configured vsans

### Command Mode

- /exec

## show fctimer E\_D\_TOV

```
show fctimer E_D_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_E_D_TOV [ <vsan-no> ] <E_D_TOV> ] [ <non-exist-nsan> ] ]
```

### Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
E_D_TOV	E_D_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
<i>__readonly__</i>	(Optional)
TABLE_E_D_TOV	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>E_D_TOV</i>	(Optional) E_D_TOV
<i>non-exist-nsan</i>	(Optional) not exist vsans

### Command Mode

- /exec

## show fctimer F\_S\_TOV

```
show fctimer F_S_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_F_S_TOV [ <vsan-no> ] <F_S_TOV> ] [
<non-exist-vsan> ] ]
```

### Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
F_S_TOV	F_S_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
__readonly__	(Optional)
TABLE_F_S_TOV	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>F_S_TOV</i>	(Optional) F_S_TOV
<i>non-exist-<i>vsan</i></i>	(Optional) not exist vsans

### Command Mode

- /exec

## show fctimer R\_A\_TOV

```
show fctimer R_A_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_R_A_TOV [ <vsan-no> ] <R_A_TOV> ] [ <non-exist-nsan> ] ]
```

### Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
R_A_TOV	R_A_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
<i>__readonly__</i>	(Optional)
TABLE_R_A_TOV	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>R_A_TOV</i>	(Optional) R_A_TOV
<i>non-exist-nsan</i>	(Optional) non exist vsans

### Command Mode

- /exec

## show fctimer last action status

```
show fctimer last action status [ __readonly__ [ <vsan> ] <last_action_timestamp> <last_action>
<last_action_result> <last_action_failure_reason> ]
```

### Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
last	Show the status of the last cfs commit/abort operation
action	Show the status of the last cfs commit/abort operation
status	Show the status of the last cfs commit/abort operation
<i>__readonly__</i>	(Optional) Readonly
<i>vsan</i>	(Optional) Vsan
<i>last_action_timestamp</i>	(Optional) Last action timestamp
<i>last_action</i>	(Optional) Last action
<i>last_action_result</i>	(Optional) Last action result
<i>last_action_failure_reason</i>	(Optional) Last action failure reason

### Command Mode

- /exec

# show fctimer pending-diff

```
show fctimer pending-diff [ __readonly__ <status_fctimer> ]
```

## Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
pending-diff	Show the difference between pending database and running config
__readonly__	(Optional)
<i>status_fctimer</i>	(Optional) Show the difference between pending database and running config

## Command Mode

- /exec

# show fctimer pending

show fctimer pending [ \_\_readonly\_\_ <status\_fctimer> ]

## Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
pending	Show the status of pending fctimer commands
__readonly__	(Optional)
<i>status_fctimer</i>	(Optional) Show the status of pending fctimer commands

## Command Mode

- /exec



## show fctimer session status

```
show fctimer session status [ __readonly__ [ <vsan> ] <last_action_timestamp> <last_action>
<last_action_result> <last_action_failure_reason> ]
```

### Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
session	Show the state of fctimer cfs session
status	Show the status of the last cfs commit/abort operation
<i>__readonly__</i>	(Optional) Readonly
<i>vsan</i>	(Optional) Vsan
<i>last_action_timestamp</i>	(Optional) Last action timestamp
<i>last_action</i>	(Optional) Last action
<i>last_action_result</i>	(Optional) Last action result
<i>last_action_failure_reason</i>	(Optional) Last action failure reason

### Command Mode

- /exec

# show fctimer status

show fctimer status [ \_\_readonly\_\_ <Distribution> ]

## Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
status	cfs distribution is enabled or disabled
__readonly__	(Optional) read only
<i>Distribution</i>	(Optional) distribution

## Command Mode

- /exec

## show fctimer vsan

```
show fctimer vsan <i0> [ __readonly__ { TABLE_fctimer <vsan-no> <F_S_TOV> <D_S_TOV> <E_D_TOV>
<R_A_TOV> } [ <non-exist-vsans> ] ]
```

### Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
vsan	Specify VSAN id
<i>i0</i>	VSAN id range
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_fctimer</i>	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>F_S_TOV</i>	(Optional) F_S_TOV
<i>D_S_TOV</i>	(Optional) D_S_TOV
<i>E_D_TOV</i>	(Optional) E_D_TOV
<i>R_A_TOV</i>	(Optional) R_A_TOV
<i>non-exist-vsans</i>	(Optional) non exist vsans

### Command Mode

- /exec

## show feature-set

```
show feature-set [ <name> ] [ <id> ] [ __readonly__ TABLE_cfcFeatureSetTable <cfcFeatureSetIndex>
<cfcFeatureSetName> <cfcFeatureSetAction> <cfcFeatureSetLastAction> <cfcFeatureSetLastActionResult>
<cfcFeatureSetLastFailureReason> <cfcFeatureSetOpStatus> <cfcFeatureSetOpStatusReason> ]
```

### Syntax Description

show	Show running system information
feature-set	Show feature set status
<i>name</i>	(Optional) feature-set name
<i>id</i>	(Optional) feature-set id
<i>__readonly__</i>	(Optional)
<i>TABLE_cfcFeatureSetTable</i>	(Optional) feature-set table
<i>cfcFeatureSetIndex</i>	(Optional) feature-set table index
<i>cfcFeatureSetName</i>	(Optional) feature-set name
<i>cfcFeatureSetAction</i>	(Optional) action
<i>cfcFeatureSetLastAction</i>	(Optional) last action
<i>cfcFeatureSetLastActionResult</i>	(Optional) last action result
<i>cfcFeatureSetLastFailureReason</i>	(Optional) last failure reason
<i>cfcFeatureSetOpStatus</i>	(Optional) operation status
<i>cfcFeatureSetOpStatusReason</i>	(Optional) operation status

### Command Mode

- /exec

## show feature-set services

```
show feature-set services <s0> [ __readonly__ [ { TABLE_services <service_name> } ] { <count>
<feature_set> } ]
```

### Syntax Description

show	Show running system information
feature-set	Show feature set status
services	Show services in feature set
<i>__readonly__</i>	(Optional)
<i>TABLE_services</i>	(Optional) all service names in feature set
<i>service_name</i>	(Optional) name of the service
<i>count</i>	(Optional) number of services in the feature set
<i>feature_set</i>	(Optional) feature set name
<i>s0</i>	Name of feature set

### Command Mode

- /exec

# show feature

```
show feature [ __readonly__ [ { TABLE_cfcFeatureCtrlTable <cfcFeatureCtrlIndex2>
<cfcFeatureCtrlInstanceNum2> <cfcFeatureCtrlName2> <cfcFeatureCtrlAction2> <cfcFeatureCtrlLastAction2>
<cfcFeatureCtrlLastActionResult2> <cfcFeatureCtrlLastFailureReason2> <cfcFeatureCtrlOpStatus2>
<cfcFeatureCtrlOpStatusReason2> <cfcFeatureCtrlTag2> } ] ]
```

## Syntax Description

show	Show running system information
feature	Show feature status
__readonly__	(Optional)
TABLE_cfcFeatureCtrlTable	(Optional) feature table
<i>cfcFeatureCtrlIndex2</i>	(Optional) feature table index
<i>cfcFeatureCtrlInstanceNum2</i>	(Optional) instance number
<i>cfcFeatureCtrlName2</i>	(Optional) feature name
<i>cfcFeatureCtrlAction2</i>	(Optional) Action to be triggered for the feature
<i>cfcFeatureCtrlLastAction2</i>	(Optional) Last action triggered for the feature
<i>cfcFeatureCtrlLastActionResult2</i>	(Optional) The result of execution of the last action
<i>cfcFeatureCtrlLastFailureReason2</i>	(Optional) Failure Reason
<i>cfcFeatureCtrlOpStatus2</i>	(Optional) operation status
<i>cfcFeatureCtrlOpStatusReason2</i>	(Optional) Reason for current operation status
<i>cfcFeatureCtrlTag2</i>	(Optional) Name of the instance in string format in case of multinstance feature

## Command Mode

- /exec

# show fhrp

```
show fhrp [ <intf> ] [ __readonly__ { TABLE_brief <intf_name> <intf_state> <ipv4_state> <ipv6_state>
<hardware_status> <refcount> } ]
```

## Syntax Description

fhrp	FHRP Show commands
show	Show running system information
<i>intf</i>	(Optional) Specify a single interface
<i>__readonly__</i>	(Optional)
<i>TABLE_brief</i>	(Optional) Show brief FHRP interface information
<i>intf_name</i>	(Optional) Interface name
<i>intf_state</i>	(Optional) Interface state
<i>ipv4_state</i>	(Optional) Interface IPv4 state
<i>ipv6_state</i>	(Optional) Interface IPv6 state
<i>hardware_status</i>	(Optional) Interface hardware status
<i>refcount</i>	(Optional) Interface refcount

## Command Mode

- /exec

## show fhrp verbose

```
show fhrp [ <intf> ] verbose [ __readonly__ { TABLE_det <intf_name> <handle> <refcount> { TABLE_clients
<client_id> <client_name> } <running> <expired> <v_retries> <v_time> <r_delay> <min_delay>
<remaining_delay> <i_state> <ipv4_state> <ipv6_state> <h_state> <int_l2> } ]
```

### Syntax Description

fhrp	FHRP Show commands
show	Show running system information
<i>intf</i>	(Optional) Specify a single interface
verbose	Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_det	(Optional) Detailed FHRP interface information
<i>intf_name</i>	(Optional) Interface name
<i>handle</i>	(Optional) Interface handle
<i>refcount</i>	(Optional) Reference count
TABLE_clients	(Optional) FHRP clients present on interface
<i>client_id</i>	(Optional) FHRP client id
<i>client_name</i>	(Optional) FHRP client name
<i>running</i>	(Optional) Time verify up timer running
<i>expired</i>	(Optional) Verify up timer has expired
<i>v_retries</i>	(Optional) Verify retries
<i>v_time</i>	(Optional) Verify remaining time
<i>r_delay</i>	(Optional) Reload delay
<i>min_delay</i>	(Optional) Min delay
<i>remaining_delay</i>	(Optional) Remaining delay
<i>i_state</i>	(Optional) Interface state
<i>ipv4_state</i>	(Optional) Interface IPv4 state
<i>ipv6_state</i>	(Optional) Interface IPv6 state
<i>h_state</i>	(Optional) Interface hardware state
<i>int_l2</i>	(Optional) Interface is L2-only



## Command Mode

- /exec

## show file

```
show file <uri0> [ cksum | md5sum | sha256sum | sha512sum ] [ __readonly__ { [ <file_content> ] + [ <file_content_cksum> ] [ <file_content_md5sum> ] [ <file_content_sha256sum> ] [ <file_content_sha512sum> ] } ]
```

### Syntax Description

show	Show running system information
file	Displays content of files
<i>uri0</i>	Filename to be displayed
cksum	(Optional) Displays CRC checksum for a file
md5sum	(Optional) Displays MD5 checksum for a file
sha256sum	(Optional) Displays SHA256 checksum for a file
sha512sum	(Optional) Displays SHA512 checksum for a file
<i>__readonly__</i>	(Optional) Read only
<i>file_content</i>	(Optional) uri file content buffer string
<i>file_content_cksum</i>	(Optional) uri file content checksum
<i>file_content_md5sum</i>	(Optional) uri file content md5sum
<i>file_content_sha256sum</i>	(Optional) uri file content sha256sum
<i>file_content_sha512sum</i>	(Optional) uri file content sha512sum

### Command Mode

- /exec

## show fips status

```
show fips status [ __readonly__ { operation_status <o_status> } { mode_state <m_state> } [ TABLE_sessions
<lc_num> <lc_status> ] ]
```

### Syntax Description

show	Show running system information
fips	Show if FIPS mode is enabled or disabled
status	Whether FIPS mode is enabled or disabled
__readonly__	(Optional)
operation_status	(Optional) run-time information about fips
<i>o_status</i>	(Optional) operational status of fips
mode_state	(Optional) mode state
<i>m_state</i>	(Optional) fips or non-fips state
TABLE_sessions	(Optional) all lc status
<i>lc_num</i>	(Optional) the lc number
<i>lc_status</i>	(Optional) the lc status

### Command Mode

- /exec

## show flow cache

```
show flow cache [ ipv4 | ipv6 | ce ] [ __readonly__ ] [ { TABLE_flow_cache <flow-cache-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <source-mac> ] [ <destination-mac> ] [ <bridge-domain-id> ] [ <ether-type> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <ipv6-flowlabel> ] [ <byte-count> ] [ <packet-count> ] [ <tcp-flags> ] [ <tos> ] [ <if-id> ] [ <output-if-id> ] [ <flow-start> ] [ <flow-end> ] } ] ]
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
cache	Show NetFlow Exporter Cache
ipv4	(Optional) Show ipv4 cache entries
ipv6	(Optional) Show ipv6 cache entries
ce	(Optional) Show ce cache entries
__readonly__	(Optional)
TABLE_flow_cache	(Optional) The XML flow cache table
<i>flow-cache-index</i>	(Optional) Flow Index
<i>flow-type</i>	(Optional) Flow type - v4,v6 or MAC
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>source-mac</i>	(Optional) Source MAC
<i>destination-mac</i>	(Optional) Destination MAC
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>ether-type</i>	(Optional) Ether Type
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>ipv6-flowlabel</i>	(Optional) Ipv6 flowlabel
<i>byte-count</i>	(Optional) Byte Count
<i>packet-count</i>	(Optional) Packet Count
<i>tcp-flags</i>	(Optional) TCP Flags

<i>tos</i>	(Optional) TOS
<i>if-id</i>	(Optional) IF ID
<i>output-if-id</i>	(Optional) OUTPUT IF ID
<i>flow-start</i>	(Optional) Flow Start Time
<i>flow-end</i>	(Optional) Flow End Time

**Command Mode**

- /exec

## show flow cache

```
show flow cache [ ipv4 | ipv6 | ce ] [ __readonly__ TABLE_flow_cache <flow-type> <source-ip>
<destination-ip> <bridge-domain-id> <source-port> <destination-port> <protocol> <ipv6-flowlabel>
<byte-count> <packet-count> <tcp-flags> <tos> <if-id> <flow-start> <flow-end> <source-mac>
<destination-mac> <ether-type> ]
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
cache	Show NetFlow Exporter Cache
ipv4	(Optional) Show ipv4 cache entries
ipv6	(Optional) Show ipv6 cache entries
ce	(Optional) Show ce cache entries
__readonly__	(Optional)
TABLE_flow_cache	(Optional) The XML flow cache table
<i>flow-type</i>	(Optional) Flow type - v4,v6 or MAC
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>ipv6-flowlabel</i>	(Optional) Ipv6 flowlabel
<i>byte-count</i>	(Optional) Byte Count
<i>packet-count</i>	(Optional) Packet Count
<i>tcp-flags</i>	(Optional) TCP Flags
<i>tos</i>	(Optional) TOS
<i>if-id</i>	(Optional) IF ID
<i>flow-start</i>	(Optional) Flow Start Time
<i>flow-end</i>	(Optional) Flow End Time

<i>source-mac</i>	(Optional) Source MAC
<i>destination-mac</i>	(Optional) Destination MAC
<i>ether-type</i>	(Optional) Ether Type

**Command Mode**

- /exec

## show flow exporter

```
show flow exporter [ name ] [ <exporter> ] [ __readonly__ { TABLE_flow_exporter <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <exp_vers> <seqnum>
<samp_table_to> <if_table_to> <stats_to> <temp_to> <rec_sent> <temp_sent> <pkts_sent> <bytes_sent>
<dest_unreach> <buff_events> <pkts_drop_no_route> <pkts_drop_other> <pkts_drop_lc_rp>
<pkts_drop_op_drops> <time_last_cleared> } ]
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
exporter	Show NetFlow Exporter Configuration and Statistics
name	(Optional) Show a specific Flow Exporter
<i>exporter</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
TABLE_flow_exporter	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>dscp</i>	(Optional)
<i>seqnum</i>	(Optional)
<i>exp_vers</i>	(Optional)
<i>samp_table_to</i>	(Optional)
<i>if_table_to</i>	(Optional)
<i>stats_to</i>	(Optional)
<i>temp_to</i>	(Optional)



<i>rec_sent</i>	(Optional)
<i>temp_sent</i>	(Optional)
<i>pkts_sent</i>	(Optional)
<i>bytes_sent</i>	(Optional)
<i>dest_unreach</i>	(Optional)
<i>buff_events</i>	(Optional)
<i>pkts_drop_no_route</i>	(Optional)
<i>pkts_drop_other</i>	(Optional)
<i>pkts_drop_lc_rp</i>	(Optional)
<i>pkts_drop_op_drops</i>	(Optional)
<i>time_last_cleared</i>	(Optional)

**Command Mode**

- /exec

## show flow exporter

```
show flow exporter [ name ] [ <exporter> ] [ __readonly__ { TABLE_flow_exporter <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <exp_vers> <seqnum>
<samp_table_to> <if_table_to> <stats_to> <temp_to> <rec_sent> <temp_sent> <pkts_sent> <bytes_sent>
<dest_unreach> <buff_events> <pkts_drop_no_route> <pkts_drop_other> <pkts_drop_lc_rp>
<pkts_drop_op_drops> <time_last_cleared> } ]
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
exporter	Show NetFlow Exporter Configuration and Statistics
name	(Optional) Show a specific Flow Exporter
<i>exporter</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
TABLE_flow_exporter	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>dscp</i>	(Optional)
<i>seqnum</i>	(Optional)
<i>exp_vers</i>	(Optional)
<i>samp_table_to</i>	(Optional)
<i>if_table_to</i>	(Optional)
<i>stats_to</i>	(Optional)
<i>temp_to</i>	(Optional)

<i>rec_sent</i>	(Optional)
<i>temp_sent</i>	(Optional)
<i>pkts_sent</i>	(Optional)
<i>bytes_sent</i>	(Optional)
<i>dest_unreach</i>	(Optional)
<i>buff_events</i>	(Optional)
<i>pkts_drop_no_route</i>	(Optional)
<i>pkts_drop_other</i>	(Optional)
<i>pkts_drop_lc_rp</i>	(Optional)
<i>pkts_drop_op_drops</i>	(Optional)
<i>time_last_cleared</i>	(Optional)

**Command Mode**

- /exec

# show flow filter

```
show flow filter [ __readonly__ [ { TABLE_flow_filter <name> <ipv4acl> <ipv6acl> } ] ]
```

## Syntax Description

show	Show running system information
flow	Show Analytics information
filter	Show filter Configuration
__readonly__	(Optional)
TABLE_flow_filter	(Optional) flow filter data
<i>name</i>	(Optional) Filter Name
<i>ipv4acl</i>	(Optional) IPv4 ACL
<i>ipv6acl</i>	(Optional) IPv4 ACL

## Command Mode

- /exec

# show flow interface

```
show flow { interface [ <intf> ] | vlan [ <vlan> ] } [ __readonly__ [ { TABLE_flow_interface [ <intf_name> ] [ <vlan_id> ] [ <v4in_mon_name> ] [ <v4in_direction> ] [ <v4in_profile_id> ] [ <v6in_mon_name> ] [ <v6in_direction> ] [ <v6in_profile_id> ] [ <l2in_mon_name> ] [ <l2in_direction> ] [ <l2in_profile_id> ] } ] ]
```

## Syntax Description

show	Show running system information
flow	Show NetFlow information
interface	Flow interface information
<i>intf</i>	(Optional) Interface
vlan	Flow vlan information
<i>vlan</i>	(Optional) Vlan number
<i>__readonly__</i>	(Optional)
TABLE_flow_interface	(Optional) flow interface data
<i>intf_name</i>	(Optional) Interface
<i>vlan_id</i>	(Optional) VLAN ID
<i>v4in_mon_name</i>	(Optional) IPv4 Input monitor name
<i>v4in_direction</i>	(Optional) IPv4 Input direction
<i>v4in_profile_id</i>	(Optional) IPv4 Input profile id
<i>v6in_mon_name</i>	(Optional) IPv6 Input monitor name
<i>v6in_direction</i>	(Optional) IPv6 Input direction
<i>v6in_profile_id</i>	(Optional) IPv6 Input profile id
<i>l2in_mon_name</i>	(Optional) l2 Input monitor name
<i>l2in_direction</i>	(Optional) l2 Input direction
<i>l2in_profile_id</i>	(Optional) l2 Input profile id

## Command Mode

- /exec

# show flow monitor

```
show flow monitor [ name ] [ <monitor> [ cache [ detailed ] ] ] [ __readonly__ [ { TABLE_flow_monitor
<monitor> <use_count> [ <description> ] <record> <exporter1> <exporter2> <bucket_id> <src_addr>
<dest_addr> <direction> <pkt_count> <byte_count> } ] ]
```

## Syntax Description

show	Show running system information
flow	Show NetFlow information
monitor	Show Monitor Configuration
name	(Optional) Show a specific Flow Monitor
<i>monitor</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
TABLE_flow_monitor	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>record</i>	(Optional)
<i>exporter1</i>	(Optional)
<i>exporter2</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>direction</i>	(Optional)
<i>pkt_count</i>	(Optional)
<i>byte_count</i>	(Optional)

## Command Mode

- /exec

# show flow monitor

```
show flow monitor [ name ] [ <monitor> [ cache [ detailed ] ] ] [ __readonly__ [ { TABLE_flow_monitor
<monitor> <use_count> [ <description> ] <record> <exporter1> <exporter2> <bucket_id> <src_addr>
<dest_addr> <direction> <pkt_count> <byte_count> } ] ]
```

## Syntax Description

show	Show running system information
flow	Show NetFlow information
monitor	Show Monitor Configuration
name	(Optional) Show a specific Flow Monitor
<i>monitor</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
TABLE_flow_monitor	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>record</i>	(Optional)
<i>exporter1</i>	(Optional)
<i>exporter2</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>direction</i>	(Optional)
<i>pkt_count</i>	(Optional)
<i>byte_count</i>	(Optional)

## Command Mode

- /exec

## show flow profile

```
show flow profile [ __readonly__ [ { TABLE_flow_profile <name> [ <desc> ] <number-of-users>
<export-intvl> <source-port> <packet-id-shift> <burst-intvl-shift> <mtu> [ <guess-threshold-lo> ] [
<guess-threshold-hi> ] [ { TABLE_payload_bin <payload-bin-num> <payload-bin-lo> <payload-bin-hi> }
] [ { TABLE_tcpopthdr_bin <tcpopthdr-bin-num> <tcpopthdr-bin-lo> <tcpopthdr-bin-hi> } ] [ {
TABLE_rcvwndsize_bin <rcvwndsize-bin-num> <rcvwndsize-bin-lo> <rcvwndsize-bin-hi> } ] } ] ] ] ]
```

### Syntax Description

show	Show running system information
flow	Show Analytics information
profile	Show profile Configuration
<i>__readonly__</i>	(Optional)
TABLE_flow_profile	(Optional) HW flow profile
<i>name</i>	(Optional) HW profile name
<i>desc</i>	(Optional) Description of HW profile
<i>number-of-users</i>	(Optional) No. of users
<i>export-intvl</i>	(Optional) Export Interval
<i>source-port</i>	(Optional) Source Port
<i>packet-id-shift</i>	(Optional) IP Packet ID Shift
<i>burst-intvl-shift</i>	(Optional) Burst Interval Shift
<i>mtu</i>	(Optional) MTU
<i>guess-threshold-lo</i>	(Optional) Sequence Number Guess Threshold Lo
<i>guess-threshold-hi</i>	(Optional) Sequence Number Guess Threshold Hi
TABLE_payload_bin	(Optional) Payload Bin
<i>payload-bin-num</i>	(Optional) Bin Number
<i>payload-bin-lo</i>	(Optional) Bin Lo
<i>payload-bin-hi</i>	(Optional) Bin Hi
TABLE_tcpopthdr_bin	(Optional) TCP Opt Hdr Bin
<i>tcpopthdr-bin-num</i>	(Optional) Bin Number
<i>tcpopthdr-bin-lo</i>	(Optional) Bin Lo
<i>tcpopthdr-bin-hi</i>	(Optional) Bin Hi



TABLE_rcvwinsize_bin	(Optional) Receive Windows Size Bin
<i>rcvwinsize-bin-num</i>	(Optional) Bin Number
<i>rcvwinsize-bin-lo</i>	(Optional) Bin Lo
<i>rcvwinsize-bin-hi</i>	(Optional) Bin Hi

**Command Mode**

- /exec

## show flow record

```
show flow record [ name ] [ { <record> } | { netflow-original } | { netflow { protocol-port | layer2-switched
{ input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ [ { TABLE_flow_record <record> [
<description> ] <use_count> <template> [ <match_ip_src> ] [ <match_ip_dst> ] [ <match_proto> ] [
<match_tos> ] [ <match_l4_src> ] [ <match_l4_dst> ] [ <match_ingress> ] [ <match_egress> ] [
<match_src_as_peer> ] [ <match_dst_as_peer> ] [ <match_ipv6_src> ] [ <match_ipv6_dst> ] [
<match_ipv6_flow> ] [ <match_ipv6_option> ] [ <match_ipv6_traffic> ] [ <match_l2_src> ] [ <match_l2_dst>
] [ <match_l2_src_vlan> ] [ <match_l2_dst_vlan> ] [ <match_l2_lq> ] [ <match_l2_cos> ] [ <match_l2_etype>
] [ <match_flow_dir_match> ] [ <match_ipv4v6_src> ] [ <match_ipv4v6_dst> ] [ <collect_src_as> ] [
<collect_dst_as> ] [ <collect_src_as_peer> ] [ <collect_dst_as_peer> ] [ <collect_fwd_status> ] [
<collect_ipv4_next_hop> ] [ <collect_ipv4_bgp_next> ] [ <collect_ipv6_next_hop> ] [
<collect_ipv6_bgp_next> ] [ <collect_tcp_flags> ] [ <collect_flow_dir> ] [ <collect_bytes> ] [
<collect_bytes_long> ] [ <collect_packets> ] [ <collect_packets_long> ] [ <collect_time_first> ] [
<collect_time_last> ] [ <collect_ingress_coll> ] [ <collect_egress_coll> ] [ <collect_sampler_id> ] [
<collect_ip_ver> ] [ <collect_packet_disp> ] } ] ]
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
record	Show Record Configuration
name	(Optional) Show the configuration for a specific Flow Record
<i>record</i>	(Optional) Specify a record
netflow-original	(Optional) Traditional IPv4 input NetFlow with origin ASs
netflow	(Optional) Traditional NetFlow collection schemes
ipv4	(Optional) IPv4 collection schemes
ipv6	(Optional) IPv6 collection schemes
l2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
layer2-switched	(Optional) Layer2-Switched collection schemes
original-input	(Optional) Input NetFlow
input	(Optional) Input NetFlow
protocol-port	(Optional) Protocol and Ports aggregation scheme
__readonly__	(Optional)
TABLE_flow_record	(Optional) flow record data
<i>record</i>	(Optional)
<i>description</i>	(Optional)

<i>use_count</i>	(Optional)
<i>template</i>	(Optional)
<i>match_ip_src</i>	(Optional)
<i>match_ip_dst</i>	(Optional)
<i>match_proto</i>	(Optional)
<i>match_tos</i>	(Optional)
<i>match_l4_src</i>	(Optional)
<i>match_l4_dst</i>	(Optional)
<i>match_ingress</i>	(Optional)
<i>match_egress</i>	(Optional)
<i>match_src_as_peer</i>	(Optional)
<i>match_dst_as_peer</i>	(Optional)
<i>match_ipv6_src</i>	(Optional)
<i>match_ipv6_dst</i>	(Optional)
<i>match_ipv6_flow</i>	(Optional)
<i>match_ipv6_option</i>	(Optional)
<i>match_ipv6_traffic</i>	(Optional)
<i>match_l2_src</i>	(Optional)
<i>match_l2_dst</i>	(Optional)
<i>match_l2_src_vlan</i>	(Optional)
<i>match_l2_dst_vlan</i>	(Optional)
<i>match_l2_lq</i>	(Optional)
<i>match_l2_cos</i>	(Optional)
<i>match_l2_etype</i>	(Optional)
<i>match_flow_dir_match</i>	(Optional)
<i>match_ipv4v6_src</i>	(Optional)
<i>match_ipv4v6_dst</i>	(Optional)
<i>collect_src_as</i>	(Optional)
<i>collect_dst_as</i>	(Optional)

<i>collect_src_as_peer</i>	(Optional)
<i>collect_dst_as_peer</i>	(Optional)
<i>collect_fwd_status</i>	(Optional)
<i>collect_ipv4_next_hop</i>	(Optional)
<i>collect_ipv4_bgp_next</i>	(Optional)
<i>collect_ipv6_next_hop</i>	(Optional)
<i>collect_ipv6_bgp_next</i>	(Optional)
<i>collect_tcp_flags</i>	(Optional)
<i>collect_flow_dir</i>	(Optional)
<i>collect_bytes</i>	(Optional)
<i>collect_bytes_long</i>	(Optional)
<i>collect_packets</i>	(Optional)
<i>collect_packets_long</i>	(Optional)
<i>collect_time_first</i>	(Optional)
<i>collect_time_last</i>	(Optional)
<i>collect_ingress_coll</i>	(Optional)
<i>collect_egress_coll</i>	(Optional)
<i>collect_sampler_id</i>	(Optional)
<i>collect_ip_ver</i>	(Optional)
<i>collect_packet_disp</i>	(Optional)

**Command Mode**

- /exec

## show flow record

```
show flow record [ name ] [ { <record> } | { netflow-original } | { netflow { protocol-port | layer2-switched
{ input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ [ { TABLE_flow_record <record> [
<description> ] <use_count> <template> [ <match_ip_src> ] [ <match_ip_dst> ] [ <match_proto> ] [
<match_tos> ] [ <match_l4_src> ] [ <match_l4_dst> ] [ <match_ingress> ] [ <match_egress> ] [
<match_src_as_peer> ] [ <match_dst_as_peer> ] [ <match_ipv6_src> ] [ <match_ipv6_dst> ] [
<match_ipv6_flow> ] [ <match_ipv6_option> ] [ <match_ipv6_traffic> ] [ <match_l2_src> ] [ <match_l2_dst>
] [ <match_l2_src_vlan> ] [ <match_l2_dst_vlan> ] [ <match_l2_lq> ] [ <match_l2_cos> ] [ <match_l2_etype>
] [ <match_flow_dir_match> ] [ <match_ipv4v6_src> ] [ <match_ipv4v6_dst> ] [ <collect_src_as> ] [
<collect_dst_as> ] [ <collect_src_as_peer> ] [ <collect_dst_as_peer> ] [ <collect_fwd_status> ] [
<collect_ipv4_next_hop> ] [ <collect_ipv4_bgp_next> ] [ <collect_ipv6_next_hop> ] [
<collect_ipv6_bgp_next> ] [ <collect_tcp_flags> ] [ <collect_flow_dir> ] [ <collect_bytes> ] [
<collect_bytes_long> ] [ <collect_packets> ] [ <collect_packets_long> ] [ <collect_time_first> ] [
<collect_time_last> ] [ <collect_ingress_coll> ] [ <collect_egress_coll> ] [ <collect_sampler_id> ] [
<collect_ip_ver> ] [ <collect_packet_disp> ] } ] ] ]
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
record	Show Record Configuration
name	(Optional) Show the configuration for a specific Flow Record
<i>record</i>	(Optional) Specify a record
netflow-original	(Optional) Traditional IPv4 input NetFlow with origin ASs
netflow	(Optional) Traditional NetFlow collection schemes
ipv4	(Optional) IPv4 collection schemes
ipv6	(Optional) IPv6 collection schemes
l2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
layer2-switched	(Optional) Layer2-Switched collection schemes
original-input	(Optional) Input NetFlow
input	(Optional) Input NetFlow
protocol-port	(Optional) Protocol and Ports aggregation scheme
__readonly__	(Optional)
TABLE_flow_record	(Optional) flow record data
<i>record</i>	(Optional)
<i>description</i>	(Optional)

<i>use_count</i>	(Optional)
<i>template</i>	(Optional)
<i>match_ip_src</i>	(Optional)
<i>match_ip_dst</i>	(Optional)
<i>match_proto</i>	(Optional)
<i>match_tos</i>	(Optional)
<i>match_l4_src</i>	(Optional)
<i>match_l4_dst</i>	(Optional)
<i>match_ingress</i>	(Optional)
<i>match_egress</i>	(Optional)
<i>match_src_as_peer</i>	(Optional)
<i>match_dst_as_peer</i>	(Optional)
<i>match_ipv6_src</i>	(Optional)
<i>match_ipv6_dst</i>	(Optional)
<i>match_ipv6_flow</i>	(Optional)
<i>match_ipv6_option</i>	(Optional)
<i>match_ipv6_traffic</i>	(Optional)
<i>match_l2_src</i>	(Optional)
<i>match_l2_dst</i>	(Optional)
<i>match_l2_src_vlan</i>	(Optional)
<i>match_l2_dst_vlan</i>	(Optional)
<i>match_l2_lq</i>	(Optional)
<i>match_l2_cos</i>	(Optional)
<i>match_l2_etype</i>	(Optional)
<i>match_flow_dir_match</i>	(Optional)
<i>match_ipv4v6_src</i>	(Optional)
<i>match_ipv4v6_dst</i>	(Optional)
<i>collect_src_as</i>	(Optional)
<i>collect_dst_as</i>	(Optional)

<i>collect_src_as_peer</i>	(Optional)
<i>collect_dst_as_peer</i>	(Optional)
<i>collect_fwd_status</i>	(Optional)
<i>collect_ipv4_next_hop</i>	(Optional)
<i>collect_ipv4_bgp_next</i>	(Optional)
<i>collect_ipv6_next_hop</i>	(Optional)
<i>collect_ipv6_bgp_next</i>	(Optional)
<i>collect_tcp_flags</i>	(Optional)
<i>collect_flow_dir</i>	(Optional)
<i>collect_bytes</i>	(Optional)
<i>collect_bytes_long</i>	(Optional)
<i>collect_packets</i>	(Optional)
<i>collect_packets_long</i>	(Optional)
<i>collect_time_first</i>	(Optional)
<i>collect_time_last</i>	(Optional)
<i>collect_ingress_coll</i>	(Optional)
<i>collect_egress_coll</i>	(Optional)
<i>collect_sampler_id</i>	(Optional)
<i>collect_ip_ver</i>	(Optional)
<i>collect_packet_disp</i>	(Optional)

### Command Mode

- /exec

## show flow rtp

```
show flow rtp { errors { active | history } | details } [ ipv4 | ipv6 ] [ __readonly__ [ <flow-timeout> ] [ {
TABLE_flow_rtp <flow-rtp-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <bridge-domain-id>
] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <bytes-per-sec> ] [ <start-time>
] [ <if-name> ] [ { TABLE_flow_rtp_errors <loss-start> [ <loss-end> ] [ <packet-loss> } ] } ] }
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
rtp	Real-time Transport Protocol
errors	Show NetFlow RTP flows error information
active	Show RTP flows with active losses
history	Show RTP flows with loss history
details	Show NetFlow RTP detailed information
ipv4	(Optional) Show ipv4 RTP entries
ipv6	(Optional) Show ipv6 RTP entries
__readonly__	(Optional)
TABLE_flow_rtp	(Optional) The XML flow rtp table
<i>flow-timeout</i>	(Optional) Flow Timeout
<i>flow-rtp-index</i>	(Optional) Flow RTP Index
<i>flow-type</i>	(Optional) Flow type - v4,v6
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>packet-count</i>	(Optional) Packet Count
<i>bytes-per-sec</i>	(Optional) Bytes Per Second
<i>start-time</i>	(Optional) Flow Start Time



<i>if-name</i>	(Optional) IF/Vlan
TABLE_flow_rtp_errors	(Optional) The XML flow rtp errors table
<i>loss-start</i>	(Optional) Loss Start Time
<i>loss-end</i>	(Optional) Loss End Time
<i>packet-loss</i>	(Optional) Packet loss

**Command Mode**

- /exec

# show flow rtp timeout

show flow rtp timeout [ \_\_readonly\_\_ { <flush\_cache\_to> } ]

## Syntax Description

show	Show running system information
flow	Show NetFlow information
rtp	Real-time Transport Protocol
timeout	Show NetFlow RTP flow error monitoring timeout values
__readonly__	(Optional)
<i>flush_cache_to</i>	(Optional)

## Command Mode

- /exec

# show flow system

```
show flow system [ __readonly__ <system_exporter_id> [ { TABLE_flow_interface [ <intf_name> ] [
<exporter_id> ] [ <profile_name> ] [ <v4in_mon_name> ] [ <v4in_direction> ] [ <v6in_mon_name> ] [
<v6in_direction> ] [ <filter_name> ] [ <ipv4_hit> ] [ <ipv4_create> ] [ <ipv6_hit> ] [ <ipv6_create> ] [
<ce_hit> ] [ <ce_create> ] [ <packets_seen> ] [ <skip_collect> ] [ <export_count> ] } ] ]
```

## Syntax Description

show	Show running system information
flow	Show Analytics information
system	Show system Configuration
<i>__readonly__</i>	(Optional)
<i>system_exporter_id</i>	(Optional) System Exporter ID
TABLE_flow_interface	(Optional) flow interface data
<i>intf_name</i>	(Optional) Interface
<i>exporter_id</i>	(Optional) Exporter ID
<i>profile_name</i>	(Optional) HW Profile Name
<i>v4in_mon_name</i>	(Optional) IPv4 Input monitor name
<i>v4in_direction</i>	(Optional) IPv4 Input direction
<i>v6in_mon_name</i>	(Optional) IPv6 Input monitor name
<i>v6in_direction</i>	(Optional) IPv6 Input direction
<i>filter_name</i>	(Optional) User Filter Name
<i>ipv4_hit</i>	(Optional) Number of packets that hit an Ipv4 hash entry
<i>ipv4_create</i>	(Optional) Number of packets that created a new Ipv4 hash entry
<i>ipv6_hit</i>	(Optional) Number of packets that hit an Ipv6 hash entry
<i>ipv6_create</i>	(Optional) Number of packets that created a new Ipv6 hash entry
<i>ce_hit</i>	(Optional) Number of packets that hit an ce hash entry
<i>ce_create</i>	(Optional) Number of packets that created a new ce hash entry
<i>packets_seen</i>	(Optional) Number of packets seen
<i>skip_collect</i>	(Optional) Number of packets that skipped the analytics collect
<i>export_count</i>	(Optional) Number of Analytics packets exported

**Command Mode**

- /exec

# show flow timeout

```
show flow timeout [ __readonly__ [ <active_to> ] [ <inactive_to> ] [ <fast_to> ] [ <th_pkts> ] [ <agg_age_to> ] [ <flush_cache_to> ]
```

## Syntax Description

show	Show running system information
flow	Show NetFlow information
timeout	Show NetFlow flow cache timeout values
<i>__readonly__</i>	(Optional)
<i>active_to</i>	(Optional)
<i>inactive_to</i>	(Optional)
<i>fast_to</i>	(Optional)
<i>th_pkts</i>	(Optional)
<i>agg_age_to</i>	(Optional)
<i>flush_cache_to</i>	(Optional)

## Command Mode

- /exec

## show flow tracer

```
show flow tracer [ __readonly__ [ { TABLE_flow_tracer <flow-tracer-index> [ <source-ip> ] [ <destination-ip>
] [ <bridge-domain-id> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <if-name>
] [ <fwd-drop> ] [ <rpf-fail> ] [ <policing-drop> ] [ <ids-drop> ] [ <policy-drop> ] [ <buffer-drop> ] } ] ]
```

### Syntax Description

show	Show running system information
flow	Show NetFlow information
tracer	Show packet tracer information
__readonly__	(Optional)
TABLE_flow_tracer	(Optional)
<i>flow-tracer-index</i>	(Optional) Flow Index
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>packet-count</i>	(Optional) Packet Count
<i>if-name</i>	(Optional) Ingress Interface
<i>fwd-drop</i>	(Optional) Forwarding Drops
<i>rpf-fail</i>	(Optional) RPF Port Sec Failures
<i>policing-drop</i>	(Optional) Policing Drops
<i>ids-drop</i>	(Optional) Ids Drops
<i>policy-drop</i>	(Optional) ACL Drops
<i>buffer-drop</i>	(Optional) Buffer Drops

### Command Mode

- /exec

# show forwarding

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ ipv4 ] [ route |
mhdb ] [ recursive ] [ summary ] [ [ detail | platform | partial | ipsg ] [ max-display-count <display_count> ]
] | [ <prefix> [ longer-prefixes ] [ detail | platform ] ] <address> [ detail | platform ] |
```

## Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table id in hex
ipv4	(Optional) ipv4
route	(Optional) display IP routing table
ipsg	(Optional) display IPv4 IPSG routes
mhdb	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
recursive	(Optional) display routes with recursive next hops
partial	(Optional) display routes with partial ECMPs
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
detail	(Optional) show detailed information about the routes
platform	(Optional) one command to show pi and pd info together
max-display-count	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count

## Command Mode

- /exec





<i>nexthop</i>	(Optional) next hop address
<i>intf</i>	(Optional) output interface
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface
<i>bgp_rnh</i>	(Optional) next hop address
<i>bgp_orig_as</i>	(Optional) bgp orig as
<i>bgp_peer_as</i>	(Optional) bgp peer as
<i>exp</i>	(Optional) exp mapping
<i>pkts</i>	(Optional) packet stats
<i>bytes</i>	(Optional) bytes stats
<i>src_addr</i>	(Optional) src address
<i>dest_addr</i>	(Optional) dest address
<i>lisp_flags</i>	(Optional) lisp flags
<i>lisp_inst_id</i>	(Optional) lisp instance id
<i>pltfm_key</i>	(Optional) platform key
<i>hh</i>	(Optional) Hardware Handle
<i>refcount</i>	(Optional) reference count
TABLE_ip_adjacency	(Optional) Table ip adjacency
<i>nh</i>	(Optional) next hop address
<i>rwinfo</i>	(Optional) rewrite information
<i>intf</i>	(Optional) output interface
<i>intf_idx</i>	(Optional) Interface index
<i>hhandle</i>	(Optional) Hw Handle
<i>refcnt</i>	(Optional) reference count
<i>flags</i>	(Optional) Adjacency flags
<i>holder</i>	(Optional) Holder bitmap
<i>pbr_cnt</i>	(Optional) PBR count
<i>wccp_cnt</i>	(Optional) WCCP count
<i>rewrite-p</i>	(Optional) Rewrite pointer

TABLE_index	(Optional) HW index table
<i>hw_adj</i>	(Optional) v4 adj hw index
<i>cmn-idx</i>	(Optional) CMN Index
<i>lif</i>	(Optional) LIF
<i>buf-idx</i>	(Optional) Buffer index

**Command Mode**

- /exec

# show forwarding distribution clients

show forwarding distribution clients [ \_\_readonly\_\_ <id><pid><name><shms><shme><shmn> ]

## Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
clients	unicast client information
__readonly__	(Optional)

## Command Mode

- /exec

## show forwarding distribution fib-state

```
show forwarding distribution fib-state [ __readonly__ <slot> <state><ttc><tprc><tv4ac><tv6ac> {
TABLE_fib_state <tid><tafi><prc><pc><tname> } ]
```

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
fib-state	unicast fib state info
__readonly__	(Optional)
<i>slot</i>	(Optional) slot number
TABLE_fib_state	(Optional) fib-state table

### Command Mode

- /exec

## show forwarding distribution ip igmp snooping

```
show forwarding distribution ip igmp snooping [ vlan <vlan-id> [ group [ <grpaddr> | <mac-grpaddr> ] [
source <srcaddr> ] ] ] [ detail ] [ __readonly__ <refcount> <oiflist_id> <last_oiflist_id> <ftag-id> ]
```

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
ip	IPV4 information
igmp	MFDM IGMP information
snooping	L2 mcast snooping related information
vlan	(Optional) Info specific to a vlan
<i>vlan-id</i>	(Optional) Vlan id value
group	(Optional) Group specific information
<i>grpaddr</i>	(Optional) Group address
<i>mac-grpaddr</i>	(Optional) Group MAC address
source	(Optional) (G,S) specific information
<i>srcaddr</i>	(Optional) Source address
detail	(Optional) Detailed display
<i>__readonly__</i>	(Optional)
<i>refcount</i>	(Optional) Reference Count
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>last_oiflist_id</i>	(Optional) Last OIF list Identifier
<i>ftag-id</i>	(Optional) ftag Id

### Command Mode

- /exec

## show forwarding distribution ipv6 multicast route

```
show forwarding distribution ipv6 multicast route [ table <table_id> | vrf <vrf-name> ] [ [ group { <group>
} ] [ source { <source> } ] | summary ] [ __readonly__ TABLE_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id>
] [ <total-num-groups> ] [ TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route>
] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr>
] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts>
] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [
<mti-grp-ip> ] [ <mti-src-ip> ] ] ] ] ]
```

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	display fib distribution information
ipv6	IPV6 related information
multicast	display IPv6 multicast information
route	display routing table
vrf	(Optional) display routes for a specific VRF
<i>vrf-name</i>	(Optional) VRF name
table	(Optional) table
<i>table_id</i>	(Optional) table number
group	(Optional) Multicast IPv6 Group Address
source	(Optional) Multicast IPv6 Source Address
summary	(Optional) display route counts
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>table-name</i>	(Optional)
<i>table-id</i>	(Optional)
<i>total-num-groups</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>num-star-g-route</i>	(Optional)

<i>num-sg-route</i>	(Optional)
<i>num-star-g-prfx</i>	(Optional)
<i>num-group-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>source-addr</i>	(Optional)
<i>source-len</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>group-len</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rpf-intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oiflist-index</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>mti-src-intf</i>	(Optional)
<i>mti-grp-ip</i>	(Optional)
<i>mti-src-ip</i>	(Optional)

### Command Mode

- /exec

## show forwarding distribution l2 multicast

```
show forwarding distribution l2 multicast [ ip-based | mac-based ] [ vlan <vlan-id> [ { group <grpaddr> [
source <srcaddr> ] } | destination-mac <dmac> ] ] [ summary ] [ __readonly__ [ TABLE_sum [ <mode> ] [
<num_vlan> ] [ <num_starg> ] [ <num_sg> ] [ <num_aggstarg> ] [ TABLE_sum_info [ <ftag_id> ] [ <vlan_id>
] [ <routable_flag> ] [ <num_starg> ] [ <num_sg> ] [ <num_aggstarg> ] [ <total_route> ] ] ] [ TABLE_route
[ <vlan> ] [ <grp_str> ] [ <src_str> ] [ <grp_mac> ] [ <src_mac> ] [ TABLE_oif [ <oiflist_id> ] [ <refcount>
] [ <l3_usage> ] [ <plt_index> ] [ <num_oif> ] [ <oif_name> ] [ <flags> ] [ <dvmif> ] ] ] ]
```

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
l2	L2 information
multicast	L2 multicast information
ip-based	(Optional) IPv4 based
mac-based	(Optional) MAC based
vlan	(Optional) Info specific to a vlan
<i>vlan-id</i>	(Optional) Vlan id value
group	(Optional) Group specific information
<i>grpaddr</i>	(Optional) Group address
source	(Optional) (G,S) specific information
<i>srcaddr</i>	(Optional) Source address
destination-mac	(Optional) Destination MAC specific information
<i>dmac</i>	(Optional) Destination MAC address
summary	(Optional) display route counts
<i>__readonly__</i>	(Optional)
TABLE_sum	(Optional)
<i>mode</i>	(Optional) Mode
<i>num_vlan</i>	(Optional) Num of VLAN
<i>num_starg</i>	(Optional) Num of Starg routes
<i>num_sg</i>	(Optional) Num of SG routes



<i>num_aggstarg</i>	(Optional) Num of Aggregated Starg routes
TABLE_sum_info	(Optional)
<i>vlan_id</i>	(Optional) vlan id
<i>ftag_id</i>	(Optional) ftag id
<i>routable_flag</i>	(Optional) Routable flag
<i>num_starg</i>	(Optional) Num of starg routes
<i>num_sg</i>	(Optional) Num of sg routes
<i>num_aggstarg</i>	(Optional) Num of Aggregated Starg routes
<i>total_route</i>	(Optional) Total Routes
TABLE_route	(Optional)
<i>vlan</i>	(Optional) vlan
<i>grp_str</i>	(Optional) Group Address
<i>src_str</i>	(Optional) Source Address
<i>grp_mac</i>	(Optional) Group Mac
<i>src_mac</i>	(Optional) Source Mac
TABLE_oif	(Optional)
<i>oiflist_id</i>	(Optional) oiflist index
<i>refcount</i>	(Optional) reference count
<i>l3_usage</i>	(Optional) l3 usage
<i>plt_index</i>	(Optional) platform index
<i>num_oif</i>	(Optional) Num of outgoing interface
<i>oif_name</i>	(Optional) Oif details
<i>flags</i>	(Optional)
<i>dvif</i>	(Optional)

**Command Mode**

- /exec

## show forwarding distribution lisp counters

show forwarding distribution lisp counters [ *\_\_readonly\_\_* <count> ]

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
lisp	for lisp application
counters	counters
<i>__readonly__</i>	(Optional)
<i>count</i>	(Optional) count

### Command Mode

- /exec

## show forwarding distribution lisp vrf enabled

```
show forwarding distribution lisp vrf enabled [ __readonly__ { TABLE_lisp_vrf_enabled <vrf> <lisp_enabled>
<req_id> <operation> } ]
```

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
lisp	for lisp application
vrf	vrf
enabled	enabled
<i>__readonly__</i>	(Optional)
TABLE_lisp_vrf_enabled	(Optional)
<i>vrf</i>	(Optional) vrf key
<i>lisp_enabled</i>	(Optional) lisp enabled status
<i>req_id</i>	(Optional) req id
<i>operation</i>	(Optional) operation

### Command Mode

- /exec

# show forwarding distribution multicast

```
show forwarding distribution multicast [ messages ] [ __readonly__ <num_accepting_routes> <slot> <fibstate> ]
```

## Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	(Optional) Outstanding Message Information
<i>__readonly__</i>	(Optional)
<i>num_accepting_routes</i>	(Optional) Number of fibs accepting routes
<i>slot</i>	(Optional) Slot
<i>fibstate</i>	(Optional) IP Multicast FIB process state

## Command Mode

- /exec

# show forwarding distribution multicast client-ack-db

```
show forwarding distribution multicast client-ack-db [ __readonly__ <xid> <num_receipients> <num_responses> ]
```

## Syntax Description

show	show
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast
client-ack-db	Displays the client ack db
<i>__readonly__</i>	(Optional)
<i>xid</i>	(Optional) XID
<i>num_receipients</i>	(Optional) Number of receipients
<i>num_responses</i>	(Optional) Number of responses

## Command Mode

- /exec

## show forwarding distribution multicast client

show forwarding distribution multicast client [ *\_\_readonly\_\_* <num-clients> <client-name> <client-id> <shmem-name> ]

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast information
client	Show multicast distribution client information
<i>__readonly__</i>	(Optional)
<i>num-clients</i>	(Optional) Number of Clients registered
<i>client-name</i>	(Optional) Client Name
<i>client-id</i>	(Optional) Client-id
<i>shmem-name</i>	(Optional) Shared Memory Segment Name

### Command Mode

- /exec

# show forwarding distribution multicast download

show forwarding distribution multicast download

## Syntax Description

show	
forwarding	forwarding information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
download	show download queues

## Command Mode

- /exec

## show forwarding distribution multicast mfib

```
show forwarding distribution multicast { mfib-txlist [ vrf <vrf-name> ] | mfib-buffers } [ __readonly__
<no-free-buffers> <no-used-buffers> ]
```

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast information
mfib-txlist	Show MFIB transmission-list information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) Specify VRF name
mfib-buffers	Show MFIB route buffer information
__readonly__	(Optional)
<i>no-free-buffers</i>	(Optional) Number of Free txlist MFIB buffers
<i>no-used-buffers</i>	(Optional) Number of Used txlist MFIB buffers

### Command Mode

- /exec



# show forwarding distribution multicast outgoing-interface-list L2\_PRIME

```
show forwarding distribution multicast outgoing-interface-list L2_PRIME [ <index> ] [ __readonly__ <dvif>
<platform_index> <ref_count> <l2-oifs> <port_set> ]
```

## Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
outgoing-interface-list	Outgoing interface list
L2_PRIME	Layer 2 oiflist
<i>index</i>	(Optional) Outgoing Interface List index
<i>__readonly__</i>	(Optional)
<i>dvif</i>	(Optional) Destination VIF
<i>platform_index</i>	(Optional) Platform index
<i>ref_count</i>	(Optional) Reference count
<i>l2-oifs</i>	(Optional) L2 oifs
<i>port_set</i>	(Optional) Port set

## Command Mode

- /exec

# show forwarding distribution multicast resp-ack-timer-msgs

show forwarding distribution multicast resp-ack-timer-msgs

## Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast information
resp-ack-timer-msgs	show response ack timers for MFDM

## Command Mode

- /exec

## show forwarding distribution multicast route

```
show forwarding distribution [ ip ] multicast route [ table <id> | vrf { <vrf_name> | <vrf-known-name> | all
} ] [ [ group { <gaddr> [ <mask> ] | <gprefix> } ] [ source { <saddr> [ <smask> ] | <sprefix> } ] | summary
] [ __readonly__ TABLE_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <table-wildcard> ] [
<total-num-groups> ] [ TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route>
] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr>
] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts>
] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [
<mti-grp-ip> ] [ <mti-src-ip> ] [ <next-hop> ] ] ] ]
```

### Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
ip	(Optional) IPV4 information
multicast	Multicast information
route	Multicast route related information
vrf	(Optional) Specify VRF
<i>vrf_name</i>	(Optional) Specify VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
table	(Optional) Specify Multicast Routing Table
<i>id</i>	(Optional) Multicast Routing Table Identifier
group	(Optional) IPv4 Multicast Group specific
<i>gaddr</i>	(Optional) IPv4 Multicast Group Address
<i>mask</i>	(Optional) mask for group ip address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
source	(Optional) IPv4 Multicast Source specific
<i>saddr</i>	(Optional) IPv4 Source Address
<i>smask</i>	(Optional) mask for group ip address
<i>sprefix</i>	(Optional) IPv4 Multicast Source Prefix
summary	(Optional) display route counts

<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>table-name</i>	(Optional)
<i>table-id</i>	(Optional)
<i>table-wildcard</i>	(Optional)
<i>total-num-groups</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>num-star-g-route</i>	(Optional)
<i>num-sg-route</i>	(Optional)
<i>num-star-g-prfx</i>	(Optional)
<i>num-group-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>source-addr</i>	(Optional)
<i>source-len</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>group-len</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rpf-intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oiflist-index</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>mti-src-intf</i>	(Optional)
<i>mti-grp-ip</i>	(Optional)

<i>mti-src-ip</i>	(Optional)
<i>next-hop</i>	(Optional)

**Command Mode**

- /exec

# show forwarding distribution multicast vxlan dsg-db

show forwarding distribution multicast vxlan dsg-db

## Syntax Description

show	show
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast
vxlan	vxlan
dsg-db	delivery group/source db

## Command Mode

- /exec

## show forwarding distribution nve overlay-vlan

show forwarding distribution nve overlay-vlan [ *\_\_readonly\_\_* *TABLE\_overlay\_vlan\_peer\_id* <Vlan> <SVP> <install> <Origin> <VFP-region> <peercount> <peer\_id> + ]

### Syntax Description

show	Show running system information
forwarding	forwarding information
distribution	fib distribution info
nve	nve distribution info
overlay-vlan	overlay-vlan adjacency info
<i>__readonly__</i>	(Optional)
<i>TABLE_overlay_vlan_peer_id</i>	(Optional) overlay vlan peer id table
<i>Vlan</i>	(Optional) VLAN
<i>SVP</i>	(Optional) SVP
<i>install</i>	(Optional) install
<i>Origin</i>	(Optional) Origin
<i>VFP-region</i>	(Optional) VFP-region
<i>peercount</i>	(Optional) Total count of Peers
<i>peer_id</i>	(Optional) Peer-ID

### Command Mode

- /exec

## show forwarding distribution peer-id

```
show forwarding distribution peer-id [ vpls | otv ] [ __readonly__ <header> TABLE_peer_id <app> <vlan>
<id> <peer_id> ]
```

### Syntax Description

show	Show running system information
forwarding	forwarding information
distribution	fib distribution info
peer-id	HW Peer-id allocation info
vpls	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
otv	(Optional) OTV
__readonly__	(Optional)
<i>header</i>	(Optional) Header
TABLE_peer_id	(Optional) Peer ID table
<i>app</i>	(Optional) OTV/VPLS
<i>vlan</i>	(Optional) VLAN
<i>id</i>	(Optional) ID
<i>peer_id</i>	(Optional) Peer-ID

### Command Mode

- /exec



# show forwarding distribution trace

show forwarding distribution trace

## Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
trace	unicast trace information

## Command Mode

- /exec

## show forwarding ecmp

```
show forwarding ecmp [ { [ vrf { <vrf-name> | <vrf-known-name> } ] lisp } ] [ platform ] [ module <module> ] [ partial ] [ __readonly__ [ <header> <ecmp_hash> <intf> <nh> <v6nh> <hw_index> <num_mpls> <holder> <refcount> <num_paths> <sw_ptr> <ecmp_partial> ] [ TABLE_ecmp { [ <hash> ] [ <num_paths> ] [ <hwindex> ] [ <ecmppartial> ] [ TABLE_index { [ <ecmp_idx> ] [ <cmn_idx> ] } ] [ <refcnt> ] [ <ecmp_holder> ] } ] [ TABLE_adjacency { [ <intf> ] [ <nh> ] [ <v6nh> ] [ <hw_adj_idx> ] [ <hw_cmn_idx> ] [ <lif> ] [ <hw_nve_adj_idx> ] [ <hw_nve_cmn_idx> ] [ <nve_lif> ] } ] [ <vobj_count> ] [ <vxlan_vobj_count> ] [ <vxlan> ] [ <vobj_list_header> ] [ <vobj-id> ] ] ] ]
```

### Syntax Description

show	
forwarding	Display fib information
ecmp	Show information about ECMPs
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
lisp	(Optional) Show information about LISP ECMPs
platform	(Optional) one command to show pi and pd info together
module	(Optional) slot
<i>module</i>	(Optional) slot number
partial	(Optional) Show partially installed ECMPs
__readonly__	(Optional)
<i>header</i>	(Optional) o/p header
<i>ecmp_hash</i>	(Optional) ecmp hash
<i>intf</i>	(Optional) interface
<i>nh</i>	(Optional) next hop
<i>v6nh</i>	(Optional) V6 next hop
<i>hw_index</i>	(Optional) Hw index
<i>num_mpls</i>	(Optional) No of MPLS ecmp
<i>holder</i>	(Optional) holder bitmap
<i>refcount</i>	(Optional) refcount
<i>sw_ptr</i>	(Optional) Software pointer

<i>num_paths</i>	(Optional) No of paths
<i>ecmp_partial</i>	(Optional) partial ecmp
TABLE_ecmp	(Optional) ecmp table
<i>hash</i>	(Optional) ecmp hash
<i>num_paths</i>	(Optional) No of paths
<i>hwindex</i>	(Optional) Hw index
<i>ecmpartial</i>	(Optional) partial ecmp
TABLE_index	(Optional) index table
<i>ecmp_idx</i>	(Optional) hw ecmp index
<i>cmn_idx</i>	(Optional) cmn index
<i>refcnt</i>	(Optional) refcount
<i>ecmp_holder</i>	(Optional) holder bitmap
TABLE_adjacency	(Optional) adjacency table
<i>intf</i>	(Optional) interface
<i>nh</i>	(Optional) next hop
<i>v6nh</i>	(Optional) v6 next hop
<i>hw_adj_idx</i>	(Optional) hw adj index
<i>hw_cmn_idx</i>	(Optional) hw cmn index
<i>lif</i>	(Optional) lif
<i>hw_nve_adj_idx</i>	(Optional) nve adj index
<i>hw_nve_cmn_idx</i>	(Optional) nve cmn index
<i>nve_lif</i>	(Optional) nve lif
<i>vobj_count</i>	(Optional) vobj count
<i>vxlan_vobj_count</i>	(Optional) vxlan vobj count
<i>vxlan</i>	(Optional) vxlan
<i>vobj_list_header</i>	(Optional) vobj list header
<i>vobj-id</i>	(Optional) vobj id

### Command Mode

- /exec

## show forwarding ecmp recursive

```
show forwarding ecmp recursive [ platform ] [ max-display-count <display_count> ] [ module <module> ] [
partial ] [ __readonly__ [ TABLE_vobj { [ <header_vobj> ] [ <header_ecmp> } ] [ TABLE_vobj_idx { [
<hw_vobj_index> ] [ <cmn_index> } ] [ <num_pfxs> ] [ <ecmp_partial> ] [ <activepath_hdr> ] [
TABLE_active { [ TABLE_activepath { [ <ap_nh> ] [ <ap_v6nh> ] [ <ap_rnh_len> ] [ <ap_nh_vpn_label>
] [ <ap_rnh_table_id> ] [ <ap_nh_weight> } ] } ] [ <backuppah_hdr> ] [ TABLE_backuppah { [ <bp_nh>
] [ <bp_v6nh> ] [ <bp_nh_vpn_label> ] [ <bp_rnh_table_id> ] [ <bp_nh_weight> } ] } ] [ <cnh_hdr> ] [
TABLE_cnh { [ <nh> ] [ <v6nh> ] [ <intf> ] [ TABLE_cnh_adj { [ <hw_adj> ] [ <hw_cmn_index> ] [ <lif>
] } ] } ] [ <hw_inst_n> ] [ <ls_count_n> ] [ <hw_inst_o> ] [ <ls_count_o> ] [ <fec_type> ] [ <header_fec_ecmp>
] [ <hw_vobj_fec_idx> ] [ <cmn_idx> ] [ <vobj_hw_inst_n> ] [ <vobj_ls_count_n> ] [ <vobj_hw_inst_o> ]
[ <vobj_ls_count_o> ] [ <vobj_refcount> ] [ TABLE_vobj_ecmp { [ <ec_hash> ] [ <ec_num_paths> ] [
<ec_hwindex> ] [ <ec_ecmppartial> ] [ <ec_refcnt> ] [ <ec_ecmp_holder> } ] [ TABLE_adjacency_ec { [
<ec_intf> ] [ <ec_nh> ] [ <ec_v6nh> ] [ <ec_hw_adj_idx> ] [ <ec_hw_cmn_idx> ] [ <ec_lif> ] [
<ec_hw_nve_adj_idx> ] [ <ec_hw_nve_cmn_idx> ] [ <ec_nve_lif> } ] } ] [ <ec_vobj_count> ] [
<ec_vxlan_vobj_count> ] [ <ec_vxlan> ] [ <ec_vobj_list_header> ] } ] [ <header> <num_pfxs> <rnh_table_id>
<nh> <rnh_len> <v6nh> <hw_instance> <nh_vpn_label> <nh_weight> <cnh_intf> <ecmp_partial> ] [
TABLE_ecmp { [ <hash> ] [ <num_paths> ] [ <hwindex> ] [ <ecmppartial> ] [ TABLE_index { [ <ecmp_idx>
] [ <cmn_idx> } ] [ <refcnt> ] [ <ecmp_holder> } ] [ TABLE_adjacency { [ <intf> ] [ <nh> ] [ <v6nh> ] [
<hw_adj_idx> ] [ <hw_cmn_idx> ] [ <lif> ] [ <hw_nve_adj_idx> ] [ <hw_nve_cmn_idx> ] [ <nve_lif> } ] } ]
[ <vobj_count> ] [ <vxlan_vobj_count> ] [ <vxlan> ] [ <vobj_list_header> ] [ TABLE_vobj_id { [ <vobj-id>
] } ] } ] }
```

### Syntax Description

show	
forwarding	Display fib information
ecmp	Show information about ECMPs
recursive	Show information about recursive ECMPs
platform	(Optional) one command to show pi and pd info together
module	(Optional) slot
partial	(Optional) Show partially installed ECMPs
<i>module</i>	(Optional) slot number
max-display-count	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count
__readonly__	(Optional)
TABLE_vobj	(Optional) Table vobj
<i>header_vobj</i>	(Optional) vobj o/p header
<i>header_ecmp</i>	(Optional) ecmp o/p header

<i>TABLE_vobj_idx</i>	(Optional) Table vobj index
<i>hw_vobj_index</i>	(Optional) HW VOBJ Index
<i>cmn_index</i>	(Optional) cmn index
<i>num_pfxs</i>	(Optional) Number of prefixes using this virtual object
<i>ecmp_partial</i>	(Optional) partial ecmp
<i>activepath_hdr</i>	(Optional) o/p header
<i>TABLE_active</i>	(Optional) table active
<i>TABLE_activepath</i>	(Optional) table active path
<i>ap_nh</i>	(Optional) Next hop info
<i>ap_v6nh</i>	(Optional) v6 Next hop info
<i>ap_rnh_len</i>	(Optional) Next hop mask length
<i>ap_nh_vpn_label</i>	(Optional) NH VPN label
<i>ap_rnh_table_id</i>	(Optional) The table id where the RNHs are present
<i>ap_nh_weight</i>	(Optional) weighted ecmp info
<i>backuppath_hdr</i>	(Optional) o/p header
<i>TABLE_backuppath</i>	(Optional) backup path table
<i>bp_nh</i>	(Optional) Next hop info
<i>bp_v6nh</i>	(Optional) v6 Next hop info
<i>bp_nh_vpn_label</i>	(Optional) NH VPN label
<i>bp_rnh_table_id</i>	(Optional) The table id where the RNHs are present
<i>bp_nh_weight</i>	(Optional) weighted ecmp info
<i>cnh_hdr</i>	(Optional) o/p header
<i>TABLE_cnh</i>	(Optional) cnh table
<i>nh</i>	(Optional) Next hop info
<i>v6nh</i>	(Optional) v6 Next hop info
<i>intf</i>	(Optional) cnh output interface
<i>TABLE_cnh_adj</i>	(Optional) Table cnh adjacency
<i>hw_adj</i>	(Optional) cnh hw adjacency
<i>hw_cmn_index</i>	(Optional) cnh hw cmn idx

<i>lif</i>	(Optional) lif
<i>hw_inst_n</i>	(Optional) Hardware instance info new
<i>ls_count_n</i>	(Optional) ls count new
<i>hw_inst_o</i>	(Optional) Hardware instance info old
<i>ls_count_o</i>	(Optional) ls count old
<i>fec_type</i>	(Optional) fec type
<i>header_fec_ecmp</i>	(Optional) o/p header
<i>hw_vobj_fec_idx</i>	(Optional) hw fec idx
<i>cmn_idx</i>	(Optional) cmn idx
<i>vobj_hw_inst_n</i>	(Optional) vobj hw instance
<i>vobj_ls_count_n</i>	(Optional) ls count new
<i>vobj_hw_inst_o</i>	(Optional) hw instnace info old
<i>vobj_ls_count_o</i>	(Optional) ls count old
<i>vobj_refcount</i>	(Optional) vobj refcount
TABLE_vobj_ecmp	(Optional) ecmp table
<i>ec_hash</i>	(Optional) ecmp hash
<i>ec_num_paths</i>	(Optional) No of paths
<i>ec_hwindex</i>	(Optional) Hw index
<i>ec_ecmppartial</i>	(Optional) partial ecmp
<i>ec_refcnt</i>	(Optional) refcount
<i>ec_ecmp_holder</i>	(Optional) holder bitmap
TABLE_adjacency_ec	(Optional) adjacency table
<i>ec_intf</i>	(Optional) interface
<i>ec_nh</i>	(Optional) next hop
<i>ec_v6nh</i>	(Optional) v6 next hop
<i>ec_hw_adj_idx</i>	(Optional) hw adj index
<i>ec_hw_cmn_idx</i>	(Optional) hc cmn index
<i>ec_lif</i>	(Optional) lif
<i>ec_hw_nve_adj_idx</i>	(Optional) nve adj index

<i>ec_hw_nve_cmn_idx</i>	(Optional) nve cmn index
<i>ec_nve_lif</i>	(Optional) nve lif
<i>ec_vobj_count</i>	(Optional) vobj count
<i>ec_vxlan_vobj_count</i>	(Optional) vxlan vobj count
<i>ec_vxlan</i>	(Optional) vxlan
<i>ec_vobj_list_header</i>	(Optional) vobj list header
<i>header</i>	(Optional) o/p header
<i>num_pfxs</i>	(Optional) Number of prefixes using this virtual object
<i>rnh_table_id</i>	(Optional) The table id where the RNHs are present
<i>nh</i>	(Optional) Next hop info
<i>rnh_len</i>	(Optional) Next hop mask length
<i>v6nh</i>	(Optional) V6 Next hop info
<i>hw_instance</i>	(Optional) Hardware instance info
<i>nh_vpn_label</i>	(Optional) NH VPN label
<i>nh_weight</i>	(Optional) weighted ecmp info
<i>cnh_intf</i>	(Optional) cnh output interface
<i>ecmp_partial</i>	(Optional) partial ecmp
TABLE_ecmp	(Optional) ecmp table
<i>hash</i>	(Optional) ecmp hash
<i>num_paths</i>	(Optional) No of paths
<i>hwindex</i>	(Optional) Hw index
<i>ecmpartial</i>	(Optional) partial ecmp
TABLE_index	(Optional) index table
<i>ecmp_idx</i>	(Optional) hw ecmp index
<i>cmn_idx</i>	(Optional) cmn index
<i>refcnt</i>	(Optional) refcount
<i>ecmp_holder</i>	(Optional) holder bitmap
TABLE_adjacency	(Optional) adjacency table
<i>intf</i>	(Optional) interface

<i>nh</i>	(Optional) next hop
<i>v6nh</i>	(Optional) v6 next hop
<i>hw_adj_idx</i>	(Optional) hw adj index
<i>hw_cmn_idx</i>	(Optional) hw cmn index
<i>lif</i>	(Optional) lif
<i>hw_nve_adj_idx</i>	(Optional) nve adj index
<i>hw_nve_cmn_idx</i>	(Optional) nve cmn index
<i>nve_lif</i>	(Optional) nve lif
<i>vobj_count</i>	(Optional) vobj count
<i>vxlan_vobj_count</i>	(Optional) vxlan vobj count
<i>vxlan</i>	(Optional) vxlan
<i>vobj_list_header</i>	(Optional) vobj list header
TABLE_vobj_id	(Optional) vobj_id table
<i>vobj-id</i>	(Optional) vobj id

**Command Mode**

- /exec



# show forwarding interfaces

```
show forwarding interfaces [ module <module> ] [ __readonly__ TABLE_intf_str <intf> <v4adjcnt> <v6adjcnt>
<v4rpfmode> <v6rpfmode> <mac> ]
```

## Syntax Description

show	
forwarding	fib information
interfaces	show fib interface info
<i>__readonly__</i>	(Optional)
TABLE_intf_str	(Optional) show interface string
<i>intf</i>	(Optional) interface name
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>v4adjcnt</i>	(Optional) count of v4 adjacencies
<i>v6adjcnt</i>	(Optional) count of v6 adjacencies
<i>mac</i>	(Optional) mac address
<i>v4rpfmode</i>	(Optional) v4 uRPF mode
<i>v6rpfmode</i>	(Optional) v6 uRPF mode

## Command Mode

- /exec

## show forwarding ipv6 adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 adjacency [ mpls ] [ nve ] [ <aif>
] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ [ <adj-count> ] [ TABLE_adj { [
<fec> ] <nexthop> <rewinfo> [ <interface> ] [ <pkts> ] [ <bytes> ] [ <bgp_rnh> ] [ <bgp_orig_as> ] [
<bgp_peer_as> ] [ <hh> ] [ <refcount> ] } ] [ TABLE_v6_adj { [ <nh> ] [ <rwinf> ] [ <intf> ] [ <intf_idx>
] [ <hh> ] [ <refcnt> ] [ <flags> ] [ <holder> ] [ <pbr_cnt> ] [ <wccp_cnt> ] [ TABLE_index { [ <hw_adj>
] [ <cmn_idx> ] [ <lif> ] } } ] }
```

### Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
adjacency	display adjacency information
platform	(Optional) one command to show pi and pd info together
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
mpls	(Optional) mpls adjacency information
nve	(Optional) nve adjacency information
<i>aif</i>	(Optional) adjacency output interface
detail	(Optional) detail
stats	(Optional) adjacency statistics
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>adj-count</i>	(Optional) total adj count
TABLE_adj	(Optional) Table Adjacency
<i>fec</i>	(Optional) FEC info
<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information

<i>interface</i>	(Optional) output interface
<i>pkts</i>	(Optional) packet stats
<i>bytes</i>	(Optional) bytes stats
<i>bgp_rnh</i>	(Optional) next hop address
<i>bgp_orig_as</i>	(Optional) bgp orig as
<i>bgp_peer_as</i>	(Optional) bgp peer as
<i>hh</i>	(Optional) Hardware Handle
<i>refcount</i>	(Optional) reference count
TABLE_v6_adj	(Optional) Table Adjacency
<i>nh</i>	(Optional) next hop address
<i>rwinfo</i>	(Optional) rewrite information
<i>intf</i>	(Optional) output interface
<i>intf_idx</i>	(Optional) Interface index
<i>hh</i>	(Optional) Hardware Handle
<i>refcnt</i>	(Optional) reference count
<i>flags</i>	(Optional) Adjacency flags
<i>holder</i>	(Optional) Holder bitmap
<i>pbr_cnt</i>	(Optional) PBR count
<i>wccp_cnt</i>	(Optional) WCCP count
TABLE_index	(Optional) HW index table
<i>hw_adj</i>	(Optional) v4 adj hw index
<i>cmn-idx</i>	(Optional) CMN Index
<i>lif</i>	(Optional) LIF

**Command Mode**

- /exec

## show forwarding ipv6 inconsistency

```
show forwarding ipv6 [ unicast ] inconsistency [ suppress-transient ] [ vrf { <vrf-name> | all_vrfs } ] [ module
{ <module> | all_modules } ] [ __readonly__ [ <err_str> ] [ <cc_header> ] [ <table_id> ] [ <slot_id> ] [
<exec_time> ] [ <elapsed_time> ] [ <inconsis_adjs> ] [ TABLE_inconsistency_adjs { <idipv6> <slotipv6>
[ <unitipv6> ] <vrfipv6> [ <ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [
<inconsis_routes> ] [ TABLE_inconsistency_routes { <idipv6> <slotipv6> [ <unitipv6> ] <vrfipv6> [
<ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [ <run_status> ] ]
```

### Syntax Description

show	show
forwarding	Display Forwarding Information
ipv6	ipv6
unicast	(Optional) unicast
inconsistency	route inconsistency check
suppress-transient	(Optional) Suppress Transient state
vrf	(Optional) check routes for a specific VRF
<i>vrf-name</i>	(Optional) VRF name
module	(Optional) check routes for a specific module
<i>module</i>	(Optional) module number
all_modules	(Optional) all module's
all_vrfs	(Optional) all vrf's
<i>__readonly__</i>	(Optional)
<i>err_str</i>	(Optional)
<i>cc_header</i>	(Optional)
<i>table_id</i>	(Optional)
<i>slot_id</i>	(Optional)
<i>exec_time</i>	(Optional)
<i>elapsed_time</i>	(Optional)
<i>inconsis_adjs</i>	(Optional)
TABLE_inconsistency_adjs	(Optional)
<i>idipv6</i>	(Optional)

<i>slotipv6</i>	(Optional)
<i>unitipv6</i>	(Optional)
<i>vrfigpv6</i>	(Optional)
<i>interfaceipv6</i>	(Optional)
<i>reasonipv6</i>	(Optional)
<i>inconsis_routes</i>	(Optional)
TABLE_inconsistency_routes	(Optional)
<i>idipv6</i>	(Optional)
<i>slotipv6</i>	(Optional)
<i>unitipv6</i>	(Optional)
<i>vrfigpv6</i>	(Optional)
<i>interfaceipv6</i>	(Optional)
<i>reasonipv6</i>	(Optional)
<i>run_status</i>	(Optional)

**Command Mode**

- /exec

## show forwarding ipv6 multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <tab_id> ] ipv6 multicast route { [
group { <group> | <group_addr> } | source { <source> | <source_addr> } | module <module> | vrf { <vrf-name>
| all } ] + | summary [ module <module> | vrf { <vrf-name> | <vrf-known-name> | all } ] + } [ __readonly__
[ <table_type> ] [ <vrfname> ] [ <table_id> ] [ <num_routes> <num_starg_routes> <num_sg_routes>
<num_gprefix_routes> ] [ <num_groups> ] [ <num_sources> ] [ <num_prefix_insert_fail> ] [ [
TABLE_MROUTE_INFO <address> [ <src_len> <grp_len> ] [ <df_ordinal> ] [ <rpfif> ] [ <rpf_ifindex> ]
<flag> [ <flag_value> ] <route_pkts> <route_bytes> <oiflist_id> <oif_count> <oiflist_flag> [
TABLE_OIF_INFO <oifindex> [ <vlan> ] [ TABLE_MCAST_OIF_INTF_INFO [ <oifname> ] [ <dvif> ] ]
[ <platform_id> ] [ <encap_id> ] [ <hw_index> ] ] ] ] ]
```

### Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
multicast	IPV6 related Multicast information
route	Multicast route information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
table	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>tab_id</i>	(Optional) table number
group	(Optional) Multicast IPv6 Group Address
source	(Optional) Multicast IPv6 Source Address
summary	display route counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>vrfname</i>	(Optional) VRF name
<i>table_id</i>	(Optional) Table ID

<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
TABLE_MROUTE_INFO	(Optional) Mroute info
<i>address</i>	(Optional) Mcast address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>oif_count</i>	(Optional) Number of OIFs
<i>oiflist_flag</i>	(Optional) OIF List flag
TABLE_OIF_INFO	(Optional) OIF Info
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>vlan</i>	(Optional) Vlan id
TABLE_MCAST_OIF_INTF_INFO	(Optional) OIF Interfaces
<i>oifname</i>	(Optional) OIF Interface name
<i>dvif</i>	(Optional) DVIF
<i>platform_id</i>	(Optional) Platform-index
<i>encap_id</i>	(Optional) Encap ID

<i>hw_index</i>	(Optional) Hardware index
-----------------	---------------------------

**Command Mode**

- /exec



# show forwarding kvfib cache on

show forwarding kvfib cache { on | off }

## Syntax Description

show	
forwarding	fib information
kvfib	kvfib
cache	cache
on	set variable
off	reset variable

## Command Mode

- /exec

## show forwarding l2 multicast

```
show forwarding l2 multicast { [ { vlan <vlan-id> [ { group <grpaddr> source <srcaddr> } | destination-mac
<dstmac> ] } ] [ vdc <vdc-id> ] [ module <num> ] [ __readonly__ [ TABLE_L2_MCAST_INFO <vlan_id>
[ <group> ] [ <source> ] [ <dmac> ] <epoch> <resource_id> <dest_index> [ <hw_handle> ] [ <text> ] [
<value> ] ] ] }
```

### Syntax Description

show	Show running system information
forwarding	Forwarding information
l2	L2 related information
multicast	Multicast related information
vlan	(Optional) Information Specific to a Vlan
<i>vlan-id</i>	(Optional) Vlan id value
group	(Optional) (S,G) specific information
<i>grpaddr</i>	(Optional) Group address
source	(Optional) source specific information
<i>srcaddr</i>	(Optional) Source address
destination-mac	(Optional) Destination MAC address
<i>dstmac</i>	(Optional) Ethernet MAC address
vdc	(Optional) VDC
<i>vdc-id</i>	(Optional) VDC id
module	(Optional) Slot
<i>num</i>	(Optional) Slot number
__readonly__	(Optional)
TABLE_L2_MCAST_INFO	(Optional) L2 Multicast Info
<i>vlan_id</i>	(Optional) Vlan Identifier
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>source</i>	(Optional) Multicast IPv4 Source Address
<i>dmac</i>	(Optional) Destination MAC address
<i>epoch</i>	(Optional) Epoch number

<i>resource_id</i>	(Optional) Resource Identifier
<i>dest_index</i>	(Optional) Destination Index Identifier
<i>hw_handle</i>	(Optional) Hardware Handle
<i>text</i>	(Optional) String
<i>value</i>	(Optional) Value

**Command Mode**

- /exec

# show forwarding l2vpn label vpls

show forwarding l2vpn label [ <label\_id> ] vpls [ module module ] [ \_\_readonly\_\_ <label\_id> ]

## Syntax Description

show	show
forwarding	forwarding
l2vpn	l2vpn forwarding
label	VC label
<i>label_id</i>	(Optional) VC label
vpls	VPLS
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>label_id</i>	(Optional) Label ID

## Command Mode

- /exec

## show forwarding l2vpn label xconnect

show forwarding l2vpn label [ <label\_id> ] xconnect [ module module ] [ \_\_readonly\_\_ <label\_id> ]

### Syntax Description

show	show
forwarding	forwarding
l2vpn	l2vpn forwarding
label	VC label
<i>label_id</i>	(Optional) VC label
xconnect	xconnect or VPWS
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>label_id</i>	(Optional) Label ID

### Command Mode

- /exec

# show forwarding l2vpn vlan

show forwarding l2vpn vlan [ <vlan\_id> ] [ module <module> ] [ \_\_readonly\_\_ <vlan> ]

## Syntax Description

show	show
forwarding	forwarding
l2vpn	l2vpn forwarding
vlan	vlan
<i>vlan_id</i>	(Optional) vlan id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>vlan</i>	(Optional) vlan

## Command Mode

- /exec



<i>TABLE_table_id</i>	(Optional) Table table id
<i>out-table-id</i>	(Optional) Output table-id
<i>fec</i>	(Optional) Prefix/Tunnel ID
<i>out-ip</i>	(Optional) Output Next Hop
<i>out-intf</i>	(Optional) Output Interface
<i>out-label</i>	(Optional) Output Label
<i>out-op</i>	(Optional) Output Label op
<i>hh</i>	(Optional) Hardware Handle
<i>ref-count</i>	(Optional) Ref Count
<i>in-pkts</i>	(Optional) Label Input Packet Stats
<i>in-bytes</i>	(Optional) Label Input Bytes Stats
<i>swap-out-pkts</i>	(Optional) Label Swap Output Packet Stats
<i>swap-out-bytes</i>	(Optional) Label Swap Output Bytes Stats
<i>tunnel-out-pkts</i>	(Optional) Label Tunnel Output Packet Stats
<i>tunnel-out-bytes</i>	(Optional) Label Tunnel Output Bytes Stats

**Command Mode**

- /exec



## show forwarding mpls drop-stats

```
show forwarding mpls drop-stats [ platform | label0-fwd-stats ] [ __readonly__ [ { TABLE_drop_stats
<unit-number> <pkts> <bytes> } ] ]
```

### Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding
drop-stats	MPLS dropped packets
platform	(Optional) command to display stats per chip
label0-fwd-stats	(Optional) command to display stats for label0
__readonly__	(Optional)
TABLE_drop_stats	(Optional) Table for mpls drop stats
<i>unit-number</i>	(Optional) unit number
<i>pkts</i>	(Optional) Label Packet Stats
<i>bytes</i>	(Optional) Label Bytes Stats

### Command Mode

- /exec

## show forwarding mpls ecmp

```
show forwarding mpls ecmp [ module <module> ] [ platform ] [ __readonly__ [ { TABLE_ecmp [ <type> ] [ <num_paths> ] [ <ip_paths> ] [ <mpls_paths> ] [ <ecmp_hash> ] [ <holder> ] [ <refcount> ] [ <hw_index> ] [ <fec> ] [ { TABLE_ecmp_paths [ <out-intf> ] [ <out-ip> ] [ <label-info> ] [ <refcount> ] [ <hh> ] [ <ecmp-type> ] } } ] ] ] ] ] ]
```

### Syntax Description

<code>show</code>	show
<code>forwarding</code>	display fib information
<code>mpls</code>	mpls forwarding
<code>ecmp</code>	mpls ecmps
<code>module</code>	(Optional) slot
<i>module</i>	(Optional) slot number
<code>platform</code>	(Optional) show pd info
<code>__readonly__</code>	(Optional)
<code>TABLE_ecmp</code>	(Optional)
<i>type</i>	(Optional) ecmp type
<i>num_paths</i>	(Optional) No of paths
<i>ip_paths</i>	(Optional) No of ip paths
<i>mpls_paths</i>	(Optional) No of mpls paths
<i>ecmp_hash</i>	(Optional) ecmp hash
<i>holder</i>	(Optional) holder bitmap
<i>refcount</i>	(Optional) refcount
<i>hw_index</i>	(Optional) Hw index
<i>fec</i>	(Optional) FEC
<code>TABLE_ecmp_paths</code>	(Optional)
<i>out-intf</i>	(Optional) Output Interface
<i>out-ip</i>	(Optional) Output Next Hop
<i>label-info</i>	(Optional) label info
<i>refcount</i>	(Optional) refcount

<i>hh</i>	(Optional) Hardware Handle
<i>ecmp-type</i>	(Optional) type for per path in ecmp

**Command Mode**

- /exec

## show forwarding mpls eompls

```
show forwarding mpls eompls [ peers { <addr> | all } ] [ __readonly__ [ { TABLE_peer_ip <peer_ip>
<peer_id> <vlan_bmp> <rx_pkts> <rx_bytes> } ] ]
```

### Syntax Description

show	Show
forwarding	Forwarding information
mpls	mpls forwarding
eompls	eompls
peers	(Optional) nve peers
<i>addr</i>	(Optional) peer ipaddress
all	(Optional) Display peer info for all peers
<i>__readonly__</i>	(Optional)
TABLE_peer_ip	(Optional)
<i>peer_ip</i>	(Optional) peer address
<i>peer_id</i>	(Optional) peer id
<i>vlan_bmp</i>	(Optional) vlan bitmap
<i>rx_pkts</i>	(Optional) packet stats
<i>rx_bytes</i>	(Optional) bytes stats

### Command Mode

- /exec

## show forwarding mpls eompls ir

```
show forwarding mpls eompls ir { [ vlan [ all | <vlan_id> ] ] [ peer [ all | <peer_ip> ] ] } [ __readonly__ [ {
TABLE_VLAN <vlan_id> <vni> <ifindex> <plt_space> <bitmap> <peer> + <marked> + } ] [ {
TABLE_ONE_PEER <peer> <id> <repl_id> <oif> <path_intf> + <vcount> <vlan_id> + <plt_space> } ] ]
```

### Syntax Description

show	Show running system information
forwarding	Forwarding information
mpls	mpls
eompls	eompls
ir	ir
vlan	(Optional) vlans all
all	(Optional) all
<i>vlan_id</i>	(Optional) vlan-id
peer	(Optional) peers-all
all	(Optional) all
<i>peer_ip</i>	(Optional) show detailed info for peer
__readonly__	(Optional)
TABLE_VLAN	(Optional) vlan peer ids table
<i>vlan_id</i>	(Optional) vlan id
<i>vni</i>	(Optional) vni
<i>ifindex</i>	(Optional) ifindex
<i>plt_space</i>	(Optional) platform space
<i>bitmap</i>	(Optional) peer bitmap
<i>peer</i>	(Optional) peer_address
<i>marked</i>	(Optional) marked
TABLE_ONE_PEER	(Optional) vlan peer ids table
<i>peer</i>	(Optional) vlan id
<i>id</i>	(Optional) vni
<i>repl_id</i>	(Optional) repli id

<i>oif</i>	(Optional) ifindex
<i>path_intf</i>	(Optional) pathintf name
<i>vcount</i>	(Optional) vlan count
<i>vlan_id</i>	(Optional) vlanid
<i>plt_space</i>	(Optional) platform space

**Command Mode**

- /exec



## show forwarding mpls summary

```
show forwarding mpls summary [ module <module> ] [ __readonly__ [ { TABLE_labels <space> <count>
} <total_deagg_labels> <feature_evpn_status> ] ]
```

### Syntax Description

show	show
forwarding	display fib information
mpls	mpls forwarding
summary	summary
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_labels	(Optional)
<i>space</i>	(Optional) label space
<i>count</i>	(Optional) number of labels
<i>total_deagg_labels</i>	(Optional) total deagg labels
<i>feature_evpn_status</i>	(Optional) feature evpn status

### Command Mode

- /exec



# show forwarding multicast-sr loopback interface

show forwarding multicast-sr loopback interface [ \_\_readonly\_\_ [ <port-num> ] ]

## Syntax Description

show	
forwarding	display fib information
multicast-sr	multicast service reflect information
interface	loopback interface
loopback	loopback interface
__readonly__	(Optional)
<i>port-num</i>	(Optional) Port number

## Command Mode

- /exec

## show forwarding multicast outgoing-interface-list

```
show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap | vxlan-ir-dci-encap } [ platform ]
[ module <module> ] [ <index> ] [ __readonly__ [ <refcount> ] [ <total_l2_oiflist> ] [ <total_l3_oiflist> ] [
<slot> ] [ TABLE_MCAST_OIF_INFO <oiflist_idx> [ <vlan> ] [ <num_oif> ] [
TABLE_MCAST_OIF_INTF_INFO [ <intf> ] [ <dvvif> ] ] [ <encap_id> ] <hw_oiflist_idx> [ <mcidx> ] ] ]
```

### Syntax Description

show	
forwarding	Forwarding information
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
L2	Layer 2 oiflist
L3	Layer 3 oiflist
vxlan-encap	vxlan-encap oiflist
vxlan-ir-dci-encap	vxlan-ir-dci-encap oiflist
platform	(Optional) Display PI/PD
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>index</i>	(Optional) Outgoing Interface List Index
<i>__readonly__</i>	(Optional)
<i>refcount</i>	(Optional) Reference count
<i>total_l2_oiflist</i>	(Optional) total l2 oiflist
<i>total_l3_oiflist</i>	(Optional) total l3 oiflist
<i>slot</i>	(Optional) slot number
TABLE_MCAST_OIF_INFO	(Optional) Mcast OIF Info
<i>oiflist_idx</i>	(Optional) Outgoing Interface List Index
<i>vlan</i>	(Optional) Vlan id
<i>num_oif</i>	(Optional) Number of outgoing interfaces
TABLE_MCAST_OIF_INTF_INFO	(Optional) OIF Interfaces
<i>intf</i>	(Optional) OIF name

<i>dvif</i>	(Optional) DVIF
<i>encap_id</i>	(Optional) encap_id
<i>hw_oiflist_idx</i>	(Optional) Hardware Outgoing Interface List Index
<i>mcidx</i>	(Optional) MC Index

**Command Mode**

- /exec



<i>summary</i>	display route counts
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>vrfname</i>	(Optional) VRF name
<i>table_id</i>	(Optional) Table ID
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
TABLE_MROUTE_INFO	(Optional) Mroute info
<i>mcast_addr</i>	(Optional) Mcast address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>oif_count</i>	(Optional) Number of OIFs
<i>oiflist_flag</i>	(Optional) OIF List flag
<i>refcount</i>	(Optional) OIF list Reference Count

TABLE_OIF_INFO	(Optional) OIF Info
<i>oifindex</i>	(Optional) OIF Interface ifIndex
TABLE_MCAST_VLAN_INFO	(Optional) Vlan Interfaces
<i>vlan</i>	(Optional) Vlan id
TABLE_MCAST_OIF_INFO	(Optional) Oif Interfaces
<i>oifname</i>	(Optional) OIF Interface name
<i>dvif</i>	(Optional) DVIF
<i>platform_id</i>	(Optional) Platform-index
<i>encap_id</i>	(Optional) Encap ID
<i>hw_index</i>	(Optional) Hardware index
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

**Command Mode**

- /exec

## show forwarding nve l2 ingress-replication-peers

```
show forwarding nve l2 ingress-replication-peers [ ipv4 <peer_ip> | ipv6 <v6_peer_ip> ] + [ __readonly__ [
{ TABLE_VLAN <vlan_id> <vni> <ifindex> <plt_space> <peer> + } { TABLE_PSS_VLAN <vlan_pss_id>
<VNI> <vtep> <peercnt> { <pss_peer> <marked> } + } ] + [ [ <peer> <id> <repl_id> <oif> <hash_algo>
<path_intf> + <vcount> <vlan_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss_peer> <pss_id>
<pss_repl_id> <pss_oif> <pss_hash_algo> <pss_path_intf> + <pss_vcount> <vlan_pss_id> + [ <pss_path>
<pss_hash> <pss_flags> <pss_nh> <pss_intf> + ] ] ] ]
```

### Syntax Description

show	show
forwarding	display fib information
nve	nve related info
l2	L2 info
ingress-replication-peers	ingress replication peer info
ipv4	(Optional) ipv4 peer
<i>peer_ip</i>	(Optional) show detailed info of a peer
ipv6	(Optional) ipv6 peer
__readonly__	(Optional)
TABLE_VLAN	(Optional) vlan peer ids table
<i>vlan_id</i>	(Optional) vlan id
<i>vni</i>	(Optional) vni
<i>ifindex</i>	(Optional) ifindex
<i>plt_space</i>	(Optional) platform space
<i>peer</i>	(Optional) peer_address
TABLE_PSS_VLAN	(Optional) vlan-peer in pss
<i>vlan_pss_id</i>	(Optional) pss_peer_id
<i>VNI</i>	(Optional) vni
<i>vtep</i>	(Optional) vtep
<i>peercnt</i>	(Optional) peer count
<i>pss_peer</i>	(Optional) peer address
<i>marked</i>	(Optional) marked

<i>peer</i>	(Optional) peer
<i>id</i>	(Optional) id
<i>repl_id</i>	(Optional) repl_id
<i>oif</i>	(Optional) oif
<i>path_intf</i>	(Optional) path intf name
<i>hash_algo</i>	(Optional) hash algo used
<i>vcount</i>	(Optional) vlan count
<i>vlan_id</i>	(Optional) vlan id
<i>path</i>	(Optional) ecmp path
<i>hash</i>	(Optional) ecmp hash
<i>flags</i>	(Optional) ecmp flags
<i>nh</i>	(Optional) ecmp nh
<i>intf</i>	(Optional) ecmp interfaces
<i>pss_peer</i>	(Optional) peer
<i>pss_id</i>	(Optional) id
<i>pss_repl_id</i>	(Optional) repl_id
<i>pss_oif</i>	(Optional) oif
<i>pss_path_intf</i>	(Optional) path intf name
<i>pss_hash_algo</i>	(Optional) hash algo used
<i>pss_vcount</i>	(Optional) vlan count
<i>vlan_pss_id</i>	(Optional) vlan id
<i>pss_path</i>	(Optional) pss path
<i>pss_hash</i>	(Optional) pss hash
<i>pss_flags</i>	(Optional) pss flags
<i>pss_nh</i>	(Optional) pss nh
<i>pss_intf</i>	(Optional) pss intf

**Command Mode**

- /exec



## show forwarding nve l3 adjacency tunnel

```
show forwarding nve l3 adjacency tunnel [ <tunnel_id> | all ] [ bd <bd_id> | detail | module <module> | table
<table_id> ] [ __readonly__ TABLE_nvel3adj <tunnel_id> <bd_id> <table_id> <VNI> <Drop> <Refcount>
<Origin> <State> <Del> [ <sw_index> <hw_index0> <hw_index1> <hw_index2> ] ]
```

### Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
adjacency	Adjacency info
tunnel	VXLAN tunnel
<i>tunnel_id</i>	(Optional) tunnel_id
all	(Optional) show adjacency info for all peers
bd	(Optional) BD info
<i>bd_id</i>	(Optional) bd id
detail	(Optional) Show detailed information
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
table	(Optional) Tenant table-id
<i>table_id</i>	(Optional) tenant table-id
<i>__readonly__</i>	(Optional)
TABLE_nvel3adj	(Optional)
<i>tunnel_id</i>	(Optional) tunnel_id
<i>bd_id</i>	(Optional) bd id
<i>table_id</i>	(Optional) tenant table-id
VNI	(Optional) vni
Drop	(Optional) Drop
Refcount	(Optional) Refcount
Origin	(Optional) origin

<i>State</i>	(Optional) state
<i>Del</i>	(Optional) del
<i>sw_index</i>	(Optional)
<i>hw_index0</i>	(Optional)
<i>hw_index1</i>	(Optional)
<i>hw_index2</i>	(Optional)

**Command Mode**

- /exec

## show forwarding nve l3 adjacency v6-tunnel

```
show forwarding nve l3 adjacency v6-tunnel [ <peer-ip> | all ] [ bd <bd_id> | detail | module <num> | table
<table_id> ] [ __readonly__ TABLE_nvel3adj <peer-ip> <bd_id> <table_id> <VNI> <Drop> <Refcount>
<Origin> <State> <Del> <sw_index> <hw_index0> <hw_index1> <hw_index2> ]
```

### Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
adjacency	Adjacency info
v6-tunnel	VXLAN V6 tunnel
all	(Optional) Show adjacency for all peers
bd	(Optional) BD info
<i>bd_id</i>	(Optional) bd id
detail	(Optional) Show detailed information
module	(Optional) Slot/module
<i>num</i>	(Optional) Slot/module number
table	(Optional) Tenant table-id
<i>table_id</i>	(Optional) tenant table-id
<i>__readonly__</i>	(Optional)
TABLE_nvel3adj	(Optional)
<i>bd_id</i>	(Optional) bd id
<i>table_id</i>	(Optional) tenant table-id
<i>VNI</i>	(Optional) vni
<i>Drop</i>	(Optional) Drop
<i>Refcount</i>	(Optional) Refcount
<i>Origin</i>	(Optional) origin
<i>State</i>	(Optional) state
<i>Del</i>	(Optional) del

<i>sw_index</i>	(Optional)
<i>hw_index0</i>	(Optional)
<i>hw_index1</i>	(Optional)
<i>hw_index2</i>	(Optional)

**Command Mode**

- /exec

## show forwarding nve l3 ecmp

```
show forwarding nve l3 ecmp [ __readonly__ { TABLE_nve13ecmp <hw_index> <ecmp_hash> <num_paths>
<table_id> <flags> <adj_flags> <ref_count> { TABLE_tunnel_info [ <tunnel_id> | <tunnel_ip> ] <segment_id>
} <hw_ecmp_index0> <hw_ecmp_index1> <hw_ecmp_index2> } ]
```

### Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
ecmp	nve ecmp info
<i>__readonly__</i>	(Optional)
TABLE_nve13ecmp	(Optional) nve l3 ecmp table
<i>hw_index</i>	(Optional) hw_index address pointer
<i>ecmp_hash</i>	(Optional) ecmp hash
<i>num_paths</i>	(Optional) numer of members in ECMP
<i>table_id</i>	(Optional) table id
<i>flags</i>	(Optional) flags
<i>adj_flags</i>	(Optional) adj flags
<i>ref_count</i>	(Optional) num of references
TABLE_tunnel_info	(Optional)
<i>tunnel_id</i>	(Optional) tunnel id
<i>tunnel_ip</i>	(Optional) v6 tunnel ip
<i>segment_id</i>	(Optional) segment id
<i>hw_ecmp_index0</i>	(Optional) HW ECMP Index Unit 0
<i>hw_ecmp_index1</i>	(Optional) HW ECMP Index Unit 1
<i>hw_ecmp_index2</i>	(Optional) HW ECMP Index Unit 2

### Command Mode

- /exec

## show forwarding nve l3 peers

```
show forwarding nve l3 peers [ peers <peer_id> | tunnel <tunnel_id> | detail | module <module> ] + [
__readonly__ { TABLE_l3peers <tunnel_id> <peer_id> <peer_address> <interface> <rmac> <origin> <state>
<del> <count> } ]
```

### Syntax Description

show	show
forwarding	display fib information
nve	nve related info
l3	Layer 3
peers	nve peers
<i>peer_id</i>	(Optional) nve peer-id
tunnel	(Optional) VXLAN tunnel
<i>tunnel_id</i>	(Optional) Unique identifier for the tunnel
detail	(Optional) Show detailed information
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
TABLE_l3peers	(Optional) all l3 nve peers
<i>tunnel_id</i>	(Optional) tunnel_id
<i>peer_id</i>	(Optional) peer_id
<i>peer_address</i>	(Optional) peer_address
<i>interface</i>	(Optional) interface
<i>rmac</i>	(Optional) rmac
<i>origin</i>	(Optional) origin
<i>state</i>	(Optional) state
<i>del</i>	(Optional) del
<i>count</i>	(Optional) count

### Command Mode

- /exec

# show forwarding nve underlay-interfaces

```
show forwarding nve underlay-interfaces [ __readonly__ { <broadcast_status> <broadcast_level>
<multicast_status> <multicast_level> <unicast_status> <unicast_level> <no_of_uplink_interfaces> } [ {
TABLE_uplinks <ifindex> <peerid_bmp> <is_dci> [ <phy_if> ] } ] ]
```

## Syntax Description

show	show
forwarding	display fib information
nve	NVE related info
underlay-interfaces	underlay interfaces info
<i>__readonly__</i>	(Optional)
<i>broadcast_status</i>	(Optional) status
<i>broadcast_level</i>	(Optional) broadcast level
<i>multicast_status</i>	(Optional) multicast status
<i>multicast_level</i>	(Optional) multicast level
<i>unicast_status</i>	(Optional) unicast status
<i>unicast_level</i>	(Optional) unicast level
<i>no_of_uplink_interfaces</i>	(Optional) Number of uplink interfaces
TABLE_uplinks	(Optional)
<i>ifindex</i>	(Optional) uplink ifindex
<i>phy_if</i>	(Optional) uplink physical interface
<i>peerid_bmp</i>	(Optional) peerid bitmap
<i>is_dci</i>	(Optional) dci flag

## Command Mode

- /exec

## show forwarding otv

```
show forwarding otv <intf> [ peer <peer-id> ] [ module <module> ] [ __readonly__ <vlan> <peer-id>
<peer_vlan_count><tunnel_ifindex><tunnel_ifname> ]
```

### Syntax Description

show	
forwarding	fib information
otv	overlay-transport-virtualization
<i>intf</i>	overlay interface
peer	(Optional) overlay peer
<i>peer-id</i>	(Optional) overlay peer-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>vlan</i>	(Optional) Vlan information
<i>peer-id</i>	(Optional) peer-id

### Command Mode

- /exec



## show forwarding security group-tag

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> | vlan <vlan_id> ] [
ipv4 ] security group-tag [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ TABLE_sgt_vrf { <tid> <px-count> [ TABLE_sgt_prefix [ <ipa> ] [ <tag> ] [ <tv> ]
} ] ]
```

### Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>table_id</i>	(Optional) table number
vlan	(Optional) vlan
<i>vlan_id</i>	(Optional) vlan number
ipv4	(Optional) ipv4
security	display IP security information
group-tag	ip_address->security_group_tag
<i>addr</i>	(Optional) specific ip address
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
TABLE_sgt_vrf	(Optional) vrf table
<i>tid</i>	(Optional) table identifier
<i>px-count</i>	(Optional) total prefix count in VRF
TABLE_sgt_prefix	(Optional) all xml prefix entries
<i>ipa</i>	(Optional) ip address
<i>tag</i>	(Optional) security group tag

<i>tv</i>	(Optional) sgt valid
-----------	----------------------

**Command Mode**

- /exec

## show forwarding security mac

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ ipv4 ] security
mac [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] + [ __readonly__
TABLE_sec_vrf { <tid> <px-count> [ TABLE_sec_prefix <ipa> <mac> <p> <m> <v> <intf> } ] }
```

### Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>table_id</i>	(Optional) table number
ipv4	(Optional) ipv4
security	display IP security information
mac	ip_address->mac_address
<i>addr</i>	(Optional) specific ip address
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
TABLE_sec_vrf	(Optional) security vrf table
<i>tid</i>	(Optional) table identifier
<i>px-count</i>	(Optional) total prefix count in VRF
TABLE_sec_prefix	(Optional) all xml security prefix entries
<i>ipa</i>	(Optional) ip address
<i>mac</i>	(Optional) mac address
<i>m</i>	(Optional) 1 => ip->mac binding
<i>v</i>	(Optional) 1 => ip->vlan binding
<i>p</i>	(Optional) 1 => ip->port binding

<i>intf</i>	(Optional) ip->port interface
-------------	-------------------------------

**Command Mode**

- /exec

# show forwarding trace

show forwarding trace [ clear ] [ module <module> ] [ \_\_readonly\_\_ <op> ]

## Syntax Description

show	
forwarding	display fib information
trace	display trace buffer
clear	(Optional) clear the trace buffer
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>op</i>	(Optional) output

## Command Mode

- /exec

# show forwarding trace profile

show forwarding trace profile

## Syntax Description

show	
forwarding	display fib information
trace	display trace buffer
profile	show the collection profiling information

## Command Mode

- /exec

## show forwarding trace profile funcstats

show forwarding trace profile funcstats [ enable | disable ] [ module <module> ] [ \_\_readonly\_\_ <op> ]

### Syntax Description

show	
forwarding	display fib information
trace	display trace buffer
profile	show the collection profiling information
funcstats	function statistics
enable	(Optional) enable function statistics
disable	(Optional) disable function statistics
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>op</i>	(Optional) output

### Command Mode

- /exec

## show fte event

```
show fte event [ name ] [ { <eventname> } ] [ __readonly__ <event> <description> <use_count>
<latency_threshold> <latency_unit> <analytics_changed_flow_count> <latency_flow_count> ]
```

### Syntax Description

show	Show running system information
fte	Show FTE information
event	Show Event Configuration
name	(Optional) Show the configuration for a specific FTE Event
<i>eventname</i>	(Optional) Specify a event
<i>__readonly__</i>	(Optional)
<i>event</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)
<i>latency_threshold</i>	(Optional)
<i>latency_unit</i>	(Optional)
<i>analytics_changed_flow_count</i>	(Optional)
<i>latency_flow_count</i>	(Optional)

### Command Mode

- /exec



# show fte exporter

```
show fte exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description> <dest> <vrf> <vrf_id>
<vrf_resolved> <dest_udp> <source_intf> <source_ip> <exporter-id> ]
```

## Syntax Description

show	Show running system information
fte	Show FTE information
exporter	Show FTE Exporter Configuration
name	(Optional) Show a specific FTE Exporter
<i>exportername</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>exporter-id</i>	(Optional)

## Command Mode

- /exec

# show fte monitor

```
show fte monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor> <use_count>
<description> <record> <event> <exporter1> <exporter2> <bucket_id> <src_addr> <dest_addr> ]
```

## Syntax Description

show	Show running system information
fte	Show FTE information
monitor	Show Monitor Configuration
name	(Optional) Show a specific FTE Monitor
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>record</i>	(Optional)
<i>event</i>	(Optional)
<i>exporter1</i>	(Optional)
<i>exporter2</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)

## Command Mode

- /exec

# show fte record

```
show fte record [ name ] [ { <recordname> } | { fte-original } | { fte { protocol-port | layer2-switched { input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ <record> <description> <use_count> ]
```

## Syntax Description

show	Show running system information
fte	Show FTE information
record	Show Record Configuration
name	(Optional) Show the configuration for a specific FTE Record
<i>recordname</i>	(Optional) Specify a record
fte-original	(Optional) Traditional IPv4 input FTE with origin ASs
fte	(Optional) Traditional FTE collection schemes
ipv4	(Optional) IPv4 collection schemes
ipv6	(Optional) IPv6 collection schemes
l2	(Optional) L2 collection schemes
layer2-switched	(Optional) Layer2-Switched collection schemes
original-input	(Optional) Input FTE
input	(Optional) Input FTE
protocol-port	(Optional) Protocol and Ports aggregation scheme
<i>__readonly__</i>	(Optional)
<i>record</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)

## Command Mode

- /exec

show fte record



## G Show Commands

---

- [show guestshell](#), on page 548

# show guestshell

```
show guestshell [ { detail } ] [ __readonly__ [ TABLE_detail <name> <state> <package_name> <ova_path>
<application_name> <application_version> <application_description> <key_type> <signing_method>
<licensing_name> <licensing_version> <disk_reservation> <memory_reservation> <cpu_reservation>
TABLE_attached_devices <type> <name> <alias> ] ]
```

## Syntax Description

show	Show running system information
guestshell	Display guest shell service information
detail	(Optional) Detailed guest shell service information
__readonly__	(Optional) Read Only
TABLE_detail	(Optional) Virtual service detail table
<i>name</i>	(Optional) Virtual service name
<i>package_name</i>	(Optional) Virtual service package name
<i>application_name</i>	(Optional) Name of the application
<i>application_version</i>	(Optional) Version of the application
<i>application_description</i>	(Optional) Description of the application
<i>key_type</i>	(Optional) Virtual service key type
<i>signing_method</i>	(Optional) Method used to sign the package
<i>licensing_name</i>	(Optional) Name of the license
<i>licensing_version</i>	(Optional) Version of the license
<i>ova_path</i>	(Optional) Virtual service OVA path
<i>state</i>	(Optional) Virtual service state
<i>disk_reservation</i>	(Optional) Virtual service disk reservation
<i>memory_reservation</i>	(Optional) Virtual service memory reservation
<i>cpu_reservation</i>	(Optional) Virtual service CPU reservation
TABLE_attached_devices	(Optional) Attached devices table
<i>type</i>	(Optional) Type of the attached device
<i>name</i>	(Optional) Name of the attached device
<i>alias</i>	(Optional) Alias for the attached device

## Command Mode

- /exec

 show guestshell





## H Show Commands

---

- [show hardware](#), on page 553
- [show hardware access-list lou resource threshold](#), on page 556
- [show hardware access-list resource pooling](#), on page 557
- [show hardware capacity](#), on page 558
- [show hardware capacity eobc](#), on page 559
- [show hardware capacity forwarding](#), on page 560
- [show hardware capacity interface](#), on page 561
- [show hardware capacity module](#), on page 562
- [show hardware capacity power](#), on page 564
- [show hardware fabricpath mac-learning module](#), on page 565
- [show hardware feature-capability](#), on page 566
- [show hardware flow aging](#), on page 567
- [show hardware flow entry address type](#), on page 568
- [show hardware flow etrap](#), on page 569
- [show hardware flow ip](#), on page 570
- [show hardware flow ipv6](#), on page 571
- [show hardware flow l2](#), on page 572
- [show hardware flow mpls](#), on page 573
- [show hardware flow sampler](#), on page 574
- [show hardware flow utilization](#), on page 575
- [show hardware forwarding interface statistics mode](#), on page 576
- [show hardware forwarding memory health detail](#), on page 577
- [show hardware forwarding memory health summary](#), on page 580
- [show hardware ip verify](#), on page 582
- [show hardware profile packet-drop](#), on page 583
- [show hardware profile status](#), on page 584
- [show hardware profile tcam region](#), on page 586
- [show hardware qos eoq stats-class](#), on page 587
- [show hardware qos include ipg](#), on page 588
- [show hardware qos ing-pg-hdrm-reserve](#), on page 589
- [show hardware qos ing-pg-no-min](#), on page 590
- [show hardware qos ing-pg-share](#), on page 591
- [show hardware qos min-buffer](#), on page 592

- [show hardware qos ns-buffer-profile](#), on page 593
- [show hardware rate-limiter](#), on page 594
- [show hardware rate-limiter span-egress](#), on page 596
- [show hostname](#), on page 597
- [show hosts](#), on page 598
- [show hsrp](#), on page 600
- [show hsrp anycast](#), on page 604
- [show hsrp anycast interface vlan](#), on page 605
- [show hsrp anycast remote-db](#), on page 606
- [show hsrp anycast summary](#), on page 607
- [show hsrp bfd-sessions](#), on page 608
- [show hsrp delay](#), on page 610
- [show hsrp mgo](#), on page 611
- [show hsrp summary](#), on page 612

# show hardware

```
show hardware [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str>
<nxos_ver_str> [ <sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <nxos_file_name> <kick_cmpl_time>
<nxos_cmpl_time> <kick_tmstamp> <nxos_tmstamp> [ <isan_file_name> ] [ <isan_cmpl_time> ] [
<isan_tmstamp> ] <chassis_id> [ <module_id> ] <cpu_name> <memory> <mem_type> <proc_board_id> [
<host_name> ] <bootflash_size> [ <slot0_size> ] [ <slot1_size> ] <kern_uptm_days> <kern_uptm_hrs>
<kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason> [ <rr_sys_ver> ] [
<rr_service> ] <plugins> [ <manufacturer> ] { TABLE_slot [ TABLE_slot_info [ [ <num_slot_str> ] [
<status_ok_empty> ] [ [ <type> [ <num_submods> ] ] <model_num> <hw_ver> <part_num> <part_revision>
<manuf_date> <serial_num> <CLEI_code> [ <num_slot_str> ] ] ] } }
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
<i>__readonly__</i>	(Optional)
<i>header_str</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>loader_ver_str</i>	(Optional)
<i>kickstart_ver_str</i>	(Optional)
<i>nxos_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>nxos_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>nxos_cmpl_time</i>	(Optional)
<i>kick_tmstamp</i>	(Optional)
<i>nxos_tmstamp</i>	(Optional)
<i>isan_file_name</i>	(Optional)
<i>isan_cmpl_time</i>	(Optional)
<i>isan_tmstamp</i>	(Optional)
<i>chassis_id</i>	(Optional)

<i>module_id</i>	(Optional)
<i>cpu_name</i>	(Optional)
<i>memory</i>	(Optional)
<i>mem_type</i>	(Optional)
<i>proc_board_id</i>	(Optional)
<i>bootflash_size</i>	(Optional)
<i>slot0_size</i>	(Optional)
<i>slot1_size</i>	(Optional)
<i>host_name</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)
<i>rr_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</i>	(Optional)
<i>plugins</i>	(Optional)
<i>manufacturer</i>	(Optional)
TABLE_slot	(Optional) Slot
<i>num_slot_str</i>	(Optional) Number of elements
TABLE_slot_info	(Optional) Slot Info
<i>status_ok_empty</i>	(Optional) Status (Present or Absent)
<i>type</i>	(Optional) Description of the element
<i>num_submods</i>	(Optional) Number of Submodules
<i>model_num</i>	(Optional) Model Number
<i>hw_ver</i>	(Optional) Hardware version
<i>part_num</i>	(Optional) Part Number

<i>part_revision</i>	(Optional) Part revision
<i>manuf_date</i>	(Optional) Manufacturing date
<i>serial_num</i>	(Optional) Serial Number
<i>CLEI_code</i>	(Optional) CLEI code

**Command Mode**

- /exec

## show hardware access-list lou resource threshold

```
show hardware access-list lou resource threshold [ __readonly__ { current [ { lou [ { resource [ { threshold [
{ <threshold_value> } ] ] } ] } ] } ] }
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
lou	LOU
resource	hardware resource
threshold	port expansion threshold
__readonly__	(Optional)
current	(Optional)
lou	(Optional)
resource	(Optional)
threshold	(Optional)
<i>threshold_value</i>	(Optional)

### Command Mode

- /exec

# show hardware access-list resource pooling

show hardware access-list resource pooling [ *\_\_readonly\_\_* <mod-num> <status> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
resource	Hardware resource
pooling	ACL programming across TCAM banks
<i>__readonly__</i>	(Optional)
<i>mod-num</i>	(Optional) module number
<i>status</i>	(Optional) Banchaining status

## Command Mode

- /exec

# show hardware capacity

show hardware capacity

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Hardware usage levels for Power, Switching Fabric, Flash, etc

## Command Mode

- /exec



## show hardware capacity eobc

```
show hardware capacity eobc [ __readonly__ { eobc_usage [ <eobc_tx_pps> ] [ <eobc_tx_packets> ] [ <eobc_tx_dropped> ] [ <eobc_rx_pps> ] [ <eobc_rx_packets> ] [ <eobc_rx_dropped> ] } ]
```

### Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
eobc	EOBC resources
<i>__readonly__</i>	(Optional)
<i>eobc_usage</i>	(Optional)
<i>eobc_tx_packets</i>	(Optional)
<i>eobc_tx_dropped</i>	(Optional)
<i>eobc_tx_pps</i>	(Optional)
<i>eobc_rx_packets</i>	(Optional)
<i>eobc_rx_dropped</i>	(Optional)
<i>eobc_rx_pps</i>	(Optional)

### Command Mode

- /exec

# show hardware capacity forwarding

show hardware capacity forwarding

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Hardware usage levels for Power, Switching Fabric, Flash, etc
forwarding	L2/L3 Forwarding resources

## Command Mode

- /exec

# show hardware capacity interface

```
show hardware capacity interface [ __readonly__ { TABLE_moddrops <mod_num_drops> <tx_drops>
<rx_drops> <max_tx_port> <max_rx_port> } { TABLE_modbuffers <mod_num_buffers> <tx_buffers>
<rx_buffers> } ]
```

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Usage levels
interface	Interface Resources - Tx/Rx drops and Tx/Rx buffers
<i>__readonly__</i>	(Optional) Read Only
<i>mod_num_drops</i>	(Optional) Module number for Tx/Rx drops
TABLE_moddrops	(Optional) show module
<i>tx_drops</i>	(Optional) Tx drops
<i>rx_drops</i>	(Optional) Rx drops
<i>max_tx_port</i>	(Optional) Port with max Tx drops
<i>max_rx_port</i>	(Optional) Port with max Rx drops
<i>mod_num_buffers</i>	(Optional) Module number for Tx/Rx buffers
TABLE_modbuffers	(Optional) show module
<i>tx_buffers</i>	(Optional) Tx buffers
<i>rx_buffers</i>	(Optional) Rx buffers

## Command Mode

- /exec

## show hardware capacity module

```
show hardware capacity module [ __readonly__ { sup_ha_status [ <sup_ha_admin_status> ] [
<sup_ha_oper_status> ] [ <dual_sup_hw_state> ] [ <redundancy_state> ] } { switch_resouces { TABLE_lcinfo
<mod_num> <model_num> <part_num> <serial_num> } [ { TABLE_xbarinfo <mod_num1> <model_num1>
<part_num1> <serial_num1> } ] } { TABLE_flash_nvram_info <mod_num2> <dev_name> <total_bytes>
<free_bytes> <percent_used> } ]
```

### Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
module	SUP, LC, XBAR
<i>__readonly__</i>	(Optional)
<i>sup_ha_status</i>	(Optional)
<i>sup_ha_admin_status</i>	(Optional)
<i>sup_ha_oper_status</i>	(Optional)
<i>dual_sup_hw_state</i>	(Optional)
<i>redundancy_state</i>	(Optional)
<i>switch_resouces</i>	(Optional)
TABLE_lcinfo	(Optional)
<i>mod_num</i>	(Optional)
<i>model_num</i>	(Optional)
<i>part_num</i>	(Optional)
<i>serial_num</i>	(Optional)
TABLE_xbarinfo	(Optional)
<i>mod_num1</i>	(Optional)
<i>model_num1</i>	(Optional)
<i>part_num1</i>	(Optional)
<i>serial_num1</i>	(Optional)
TABLE_flash_nvram_info	(Optional)
<i>mod_num2</i>	(Optional)

<i>dev_name</i>	(Optional)
<i>total_bytes</i>	(Optional)
<i>free_bytes</i>	(Optional)
<i>percent_used</i>	(Optional)

**Command Mode**

- /exec

## show hardware capacity power

```
show hardware capacity power [ __readonly__ { power_summary <ps_redun_mode_admin>
<ps_redun_mode_oper> <power_total> <power_rsvd> <power_rsvd_percent> <power_given_mod>
<power_given_mod_percent> <power_avail> <power_avail_percent> <power_out_actual_draw>
<power_input_actual_draw> } ]
```

### Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
power	power summary
__readonly__	(Optional)
power_summary	(Optional)
<i>ps_redun_mode_admin</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_mode_oper</i>	(Optional) Mode: Redundant or Non-redundant
<i>power_total</i>	(Optional)
<i>power_rsvd</i>	(Optional)
<i>power_rsvd_percent</i>	(Optional)
<i>power_given_mod</i>	(Optional)
<i>power_given_mod_percent</i>	(Optional)
<i>power_avail</i>	(Optional)
<i>power_avail_percent</i>	(Optional)
<i>power_out_actual_draw</i>	(Optional) Total Power Output, Actuals
<i>power_input_actual_draw</i>	(Optional) Total Power Input, Actuals

### Command Mode

- /exec

# show hardware fabricpath mac-learning module

```
show hardware fabricpath mac-learning module <module> [ __readonly__ { [ { TABLE_module
<module_num> <port_group> <mac_learning> } ] } ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
fabricpath	Fabric Path
mac-learning	MAC Learning
module	Specify a module number
<i>module</i>	Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_module	(Optional)
<i>module_num</i>	(Optional) Specify a module number
<i>port_group</i>	(Optional)
<i>mac_learning</i>	(Optional)

## Command Mode

- /exec

# show hardware feature-capability

```
show hardware feature-capability [ detailed ] [ __readonly__ [ { TABLE_feature_support <feature_name> [
{ TABLE_mod_support <mod_inst> <support> } ] } ] ] ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
feature-capability	show registered features supported
detailed	(Optional) detailed
__readonly__	(Optional) Read_Only
TABLE_feature_support	(Optional) show features supported
<i>feature_name</i>	(Optional) feature name
TABLE_mod_support	(Optional) show registered features supported
<i>mod_inst</i>	(Optional) module instance
<i>support</i>	(Optional) support details

## Command Mode

- /exec



# show hardware flow aging

show hardware flow aging [ instance <inst> ] [ module <num> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
aging	Aging Info
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

## show hardware flow entry address type

show hardware flow entry address <addr> type { ip | ipv6 | l2 | mpls } [ instance <inst> ] [ module <num> ]

### Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
entry	Netflow Table Entry
address	Netflow Table Address
<i>addr</i>	Netflow Table Address
type	Flow Type
ip	Internet Protocol Version 4
ipv6	Internet Protocol Version 6
l2	Layer 2 Protocol
mpls	MPLS Protocol
instance	(Optional) Instance
<i>inst</i>	(Optional) Ear1 Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

### Command Mode

- /exec

# show hardware flow etrap

```
show hardware flow etrap [ module <module> ] [ { unit <unit> slice <slice> } ] [ __readonly__ [ {
TABLE_etrap_flows <unit> <slice> <index> <keytype> <src_addr> <dst_addr> <src_port> <dst_port>
<proto> <rate> } ] ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Traffic flow information
etrap	Elephant Trap information
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
unit	(Optional) Asic Number
<i>unit</i>	(Optional) Asic Number on the module
slice	(Optional) slice num on asic
<i>slice</i>	(Optional) slice number on asic
<i>__readonly__</i>	(Optional) Read Only
TABLE_etrap_flows	(Optional) Elephant trap flows
<i>unit</i>	(Optional) ASIC number on the module
<i>slice</i>	(Optional) Slice number on the ASIC
<i>index</i>	(Optional) Elephant trap table index
<i>keytype</i>	(Optional) Elephant trap table key type
<i>src_addr</i>	(Optional) Elephant trap flow src address
<i>dst_addr</i>	(Optional) Elephant trap flow dst address
<i>src_port</i>	(Optional) Elephant trap flow src port
<i>dst_port</i>	(Optional) Elephant trap flow src port
<i>proto</i>	(Optional) Elephant trap flow protocol
<i>rate</i>	(Optional) Elephant trap flow protocol

## Command Mode

- /exec

# show hardware flow ip

```
show hardware flow ip [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ip	Internet Protocol Version 4
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow ipv6

```
show hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ipv6	Internet Protocol Version 6
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

## show hardware flow l2

```
show hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ detail ] [ module <num> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
l2	Layer 2 Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

### Command Mode

- /exec

# show hardware flow mpls

```
show hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
mpls	MPLS Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow sampler

```
show hardware flow sampler { all | count | index <index> | name <sname> } [ detail ] [ instance <inst> ] [
module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
sampler	Flow Sampler
all	Netflow Sampler Usage
count	Netflow Sampler Utilization
index	Netflow Sampler Index
<i>index</i>	Netflow Sampler Index
name	Netflow Sampler Name
<i>sname</i>	Netflow Sampler Name
detail	(Optional) Detailed Output Display
instance	(Optional) Instance
<i>inst</i>	(Optional) Clipper Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec



# show hardware flow utilization

show hardware flow utilization [ instance <inst> ] [ module <num> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
utilization	NT Table Utilization
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

## show hardware forwarding interface statistics mode

```
show hardware forwarding interface statistics mode [ __readonly__ { system [ { <sysmode> } ] [ {
TABLE_module <module> <modmode> } ] ] ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	Show hardware information for forwarding path
interface	Interface
statistics	Statistics
mode	Statistics mode
__readonly__	(Optional)
system	(Optional)
<i>sysmode</i>	(Optional)
TABLE_module	(Optional)
<i>module</i>	(Optional) Specify a module number
<i>modmode</i>	(Optional)

### Command Mode

- /exec

## show hardware forwarding memory health detail

```
show hardware forwarding memory health detail [ __readonly__ { memscan_interval <mscan_interval> } {
memscan_rate <mscan_rate> } [ TABLE_ser <table_name> <entry_count> <table_head> <table_tail> [
TABLE_ser_entry_new <n_entry_index> [ <reg_id> ] [ <reg_port> ] [ <reg_index> ] [ <table_id> ] [
<table_index> ] <detections> <corrections> [ <last_detection_ts> ] [ <last_correction_ts> ] ] [
TABLE_ser_entry_old <o_entry_index> <mem_addr> <cause_bits> <event_type> <last_event> <last_time>
] ] [ { parity_detect_counter <parity_detect_cnt> } ] [ { parity_correct_counter <parity_correct_cnt> } ] [ {
reg_parity_detect_counter <reg_parity_detect_cnt> } ] [ { reg_parity_correct_counter <reg_parity_correct_cnt>
} ] [ { tcam_parity_detect_counter <tcam_parity_detect_cnt> } ] [ { tcam_parity_correct_counter
<tcam_parity_correct_cnt> } ] [ { sram_parity_detect_counter <sram_parity_detect_cnt> } ] [ {
sram_parity_correct_counter <sram_parity_correct_cnt> } ] [ { TABLE_ser_tbl_parity <table_id> <detections>
<corrections> } ] ] ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	forwarding information
memory	memory information
health	memory health information
detail	show the detail
__readonly__	(Optional) Read Only
memscan_interval	(Optional) memory scan interval value
<i>mscan_interval</i>	(Optional) mem scan interval
memscan_rate	(Optional) memory scan rate value
<i>mscan_rate</i>	(Optional) mem scan rate
TABLE_ser	(Optional) ser table list
<i>table_name</i>	(Optional) table name
<i>entry_count</i>	(Optional) total entries in table
<i>table_head</i>	(Optional) start of entry index
<i>table_tail</i>	(Optional) end of entry index
TABLE_ser_entry_new	(Optional) ser table entry with new format
<i>n_entry_index</i>	(Optional) entry index
<i>reg_id</i>	(Optional) register id

<i>reg_port</i>	(Optional) port
<i>reg_index</i>	(Optional) register index
<i>table_id</i>	(Optional) table id
<i>table_index</i>	(Optional) table_index
<i>detections</i>	(Optional) parity detetction count
<i>corrections</i>	(Optional) parity correction count
<i>last_detection_ts</i>	(Optional) last detetction timestamp
<i>last_correction_ts</i>	(Optional) last correction timestamp
TABLE_ser_entry_old	(Optional) ser table entry with new format
<i>o_entry_index</i>	(Optional) table entry index
<i>mem_addr</i>	(Optional) memory address
<i>cause_bits</i>	(Optional) cause bit
<i>event_type</i>	(Optional) type of event
<i>last_event</i>	(Optional) last event that occurred
<i>last_time</i>	(Optional) last time of event
parity_detect_counter	(Optional) parity detect count
<i>parity_detect_cnt</i>	(Optional) count of parity detect
parity_correct_counter	(Optional) parity correct count
<i>parity_correct_cnt</i>	(Optional) count of parity correct
reg_parity_detect_counter	(Optional) reg parity detect count
<i>reg_parity_detect_cnt</i>	(Optional) count of reg parity detect
reg_parity_correct_counter	(Optional) reg parity correct count
<i>reg_parity_correct_cnt</i>	(Optional) count of reg parity correct
tcam_parity_detect_counter	(Optional) tcam parity detect count
<i>tcam_parity_detect_cnt</i>	(Optional) count of tcam parity detect
tcam_parity_correct_counter	(Optional) tcam parity correct count
<i>tcam_parity_correct_cnt</i>	(Optional) count of tcam parity correct
sram_parity_detect_counter	(Optional) sram parity detect count
<i>sram_parity_detect_cnt</i>	(Optional) count of sram parity detect

<i>sram_parity_correct_counter</i>	(Optional) sram parity correct count
<i>sram_parity_correct_cnt</i>	(Optional) count of sram parity correct
<i>TABLE_ser_tbl_parity</i>	(Optional) all ser tables
<i>table_id</i>	(Optional) table name
<i>detections</i>	(Optional) parity detection count for ser table
<i>corrections</i>	(Optional) parity correction count for ser table

**Command Mode**

- /exec

## show hardware forwarding memory health summary

```
show hardware forwarding memory health summary [ __readonly__ [ { parity_detect_counter
<parity_detect_cnt> } ] [ { parity_correct_counter <parity_correct_cnt> } ] [ { reg_parity_detect_counter
<reg_parity_detect_cnt> } ] [ { reg_parity_correct_counter <reg_parity_correct_cnt> } ] [ {
tcam_parity_detect_counter <tcam_parity_detect_cnt> } ] [ { tcam_parity_correct_counter
<tcam_parity_correct_cnt> } ] [ { sram_parity_detect_counter <sram_parity_detect_cnt> } ] [ {
sram_parity_correct_counter <sram_parity_correct_cnt> } ] [ { TABLE_ser_tbl_parity <table_id> <detections>
<corrections> } ] ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	forwarding information
memory	memory information
health	memory health information
summary	show the summary
<i>__readonly__</i>	(Optional) Read Only
parity_detect_counter	(Optional) parity detect count
<i>parity_detect_cnt</i>	(Optional) count of parity detect
parity_correct_counter	(Optional) parity correct count
<i>parity_correct_cnt</i>	(Optional) count of parity correct
reg_parity_detect_counter	(Optional) reg parity detect count
<i>reg_parity_detect_cnt</i>	(Optional) count of reg parity detect
reg_parity_correct_counter	(Optional) reg parity correct count
<i>reg_parity_correct_cnt</i>	(Optional) count of reg parity correct
tcam_parity_detect_counter	(Optional) tcam parity detect count
<i>tcam_parity_detect_cnt</i>	(Optional) count of tcam parity detect
tcam_parity_correct_counter	(Optional) tcam parity correct count
<i>tcam_parity_correct_cnt</i>	(Optional) count of tcam parity correct
sram_parity_detect_counter	(Optional) sram parity detect count
<i>sram_parity_detect_cnt</i>	(Optional) count of sram parity detect
sram_parity_correct_counter	(Optional) sram parity correct count

<i>sram_parity_correct_cnt</i>	(Optional) count of sram parity correct
TABLE_ser_tbl_parity	(Optional) all ser tables
<i>table_id</i>	(Optional) table name
<i>detections</i>	(Optional) parity detection count for ser table
<i>corrections</i>	(Optional) parity correction count for ser table

**Command Mode**

- /exec

# show hardware ip verify

show hardware [ forwarding ] ip verify [ module <module> ] [ \_\_readonly\_\_ <info\_str> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	(Optional) Show hardware information for forwarding path
ip	IP
verify	Show IP packet verification checks enabled in hardware
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
<i>info_str</i>	(Optional) IDS Check Stats

## Command Mode

- /exec



# show hardware profile packet-drop

```
show hardware profile packet-drop { status | data [ instance <cap_instance> ] | event [ instance <cap_instance>
] } [ __readonly__ [ <enable><state> <cap-scope><drop-trigger> <cap-count><cap-time> <file-inst> ] [
TABLE_hardware_packet_drop_status <profile-name><start-thres><stop-thres> ] [
TABLE_hardware_packet_drop_data <src-port><dst-port> <qos-grp><que-depth> <payload> ] [
TABLE_hardware_packet_drop_event <src-port><dst-port> <qos-grp><que-depth> <drop-reason> ] ]
```

## Syntax Description

show	Show running system information
hardware	Change hardware usage settings
profile	Profile settings
packet-drop	Packet Drop parameters
status	Packet Drop status
data	Packet Drop circular-buffer data
instance	(Optional) Packet Drop captured instance
<i>cap_instance</i>	(Optional) Value 1-5
event	Packet Drop event-buffer data
instance	(Optional) Packet Drop captured instance
<i>cap_instance</i>	(Optional) Value 1-5
<i>__readonly__</i>	(Optional)
<i>file-inst</i>	(Optional) Packet-Drop file instance
TABLE_hardware_packet_drop_status	(Optional) XML Packet-drop stats
TABLE_hardware_packet_drop_data	(Optional) XML Packet-drop data
<i>payload</i>	(Optional) Packet-Drop Data Packet Payload (80bytes)
TABLE_hardware_packet_drop_event	(Optional) XML Packet-drop event
<i>drop-reason</i>	(Optional) PacketDrop Event Drop trigger

## Command Mode

- /exec

## show hardware profile status

```
show hardware profile status [ module <module> ] [ detail ] [ __readonly__ { <total_lpm> <total_host>
<reserved_lpm> <max_host4_limit> <max_host6_limit> <max_mcast_limit> <max_mcast6_limit> [
<max_mcast_transit_route_limit> ] [ <max_v6_lpm_limit> ] [ <max_v6_lpm_65_to_127_limit> ] [
<used_lpm_total> ] <used_v4_lpm> <used_v6_lpm> [ <used_v6_lpm_128> ] <used_host_lpm_total>
<used_host_v4_lpm> <used_host_v6_lpm> <used_mcast> <used_mcast6> [ <used_mcast_transit_routes> ]
<used_mcast_oifl> <used_host_in_host_total> <used_host4_in_host> <used_host6_in_host>
<max_ecmp_table_limit> <used_ecmp_table> <max_ecmp_nh_table_limit> <used_ecmp_nh_table> [
<mfib_fd_status> ] [ <mfib_fd_maxroute> ] [ <mfib_fd_count> ] [ <lpm_to_host_migrate_table> ] [
<host_to_lpm_migrate_table> ] } ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware usage settings
profile	Show current table usage
status	Show status of dynamic resource allocation
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>module</i>	(Optional) Slot/module number
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional) Read only
<i>total_lpm</i>	(Optional) Total LPM Entries
<i>total_host</i>	(Optional) Total Host Entries
<i>reserved_lpm</i>	(Optional) Reserved LPM Entries
<i>max_host4_limit</i>	(Optional) Max Host4 Limit Entries
<i>max_host6_limit</i>	(Optional) Max Host6 Limit Entries
<i>max_mcast_limit</i>	(Optional) Max Mcast Limit Entries
<i>max_mcast6_limit</i>	(Optional) Max IPv6 Mcast Limit Entries
<i>max_v6_lpm_limit</i>	(Optional) Max Ucast IPv6 LPM Limit Entries
<i>max_v6_lpm_65_to_127_limit</i>	(Optional) Max Ucast IPv6 LPM_65_to_127 Limit Entries
<i>used_lpm_total</i>	(Optional) Used LPM Entries (Total)
<i>used_v4_lpm</i>	(Optional) Used IPv4 LPM Entries
<i>used_v6_lpm</i>	(Optional) Used IPv6 LPM Entries

<i>used_v6_lpm_128</i>	(Optional) Used IPv6 LPM_128 Entries
<i>used_host_lpm_total</i>	(Optional) Used Host Entries in LPM (Total)
<i>used_host_v4_lpm</i>	(Optional) Used Host4 Entries in LPM
<i>used_host_v6_lpm</i>	(Optional) Used Host6 Entries in LPM
<i>used_mcast</i>	(Optional) Used Mcast Entries
<i>used_mcast6</i>	(Optional) Used IPv6 Mcast Entries
<i>used_mcast_oifl</i>	(Optional) Used Mcast OIFL Entries
<i>used_host_in_host_total</i>	(Optional) Used Host Entries in Host (Total)
<i>used_host4_in_host</i>	(Optional) Used Host4 Entries in Host
<i>used_host6_in_host</i>	(Optional) Used Host6 Entries in Host
<i>max_ecmp_table_limit</i>	(Optional) Max ECMP table Limit Entries
<i>used_ecmp_table</i>	(Optional) Used ECMP Table Entries
<i>max_ecmp_nh_table_limit</i>	(Optional) Max ECMP NH table Limit Entries
<i>used_ecmp_nh_table</i>	(Optional) Used ECMP NH Table Entries
<i>mfib_fd_status</i>	(Optional) MFIB fd status
<i>mfib_fd_maxroute</i>	(Optional) MFIB fd maxroute
<i>mfib_fd_count</i>	(Optional) MFIB fd count
<i>lpm_to_host_migrate_table</i>	(Optional) Times Route Migrated from LPM to Host Table
<i>host_to_lpm_migrate_table</i>	(Optional) Times Route Migrated from Host to LPM Table
<i>max_mcast_transit_route_limit</i>	(Optional) Max Mcast Transit Route Limit Entries
<i>used_mcast_transit_routes</i>	(Optional) Used Mcast Transit Routes

**Command Mode**

- /exec

## show hardware profile tcam region

```
show hardware profile tcam region [ __readonly__ { TCAM_Region [ { TABLE_Sizes <tcam_compat_type>
<tcam_compat_size> <tcam_compat_width> } ] } ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
profile	profile
tcam	Show tcam parameters
region	Show tcam region sizes
<i>__readonly__</i>	(Optional)
TCAM_Region	(Optional)
TABLE_Sizes	(Optional)
<i>tcam_compat_type</i>	(Optional)
<i>tcam_compat_size</i>	(Optional)
<i>tcam_compat_width</i>	(Optional)

### Command Mode

- /exec

## show hardware qos eoq stats-class

```
show hardware qos eoq stats-class [ module <module> ] [ __readonly__ TABLE_qos_eoq_stats_class [
<module> ] <eoq-stats-class-desc> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show QoS related information
eoq	Show Extended Output Queue(EOQ) related information
stats-class	Show EOQ Statistics class selection config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_eoq_stats_class	(Optional) the xml qos_eoq_stats_class configuration
<i>eoq-stats-class-desc</i>	(Optional) selected class description

### Command Mode

- /exec

## show hardware qos include ipg

show hardware qos include ipg [ module <module> ] [ \_\_readonly\_\_ TABLE\_qos\_include\_ipg <module> ]

### Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
include	Show include config
ipg	Show whether to include IPG in Shaping/Policing config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_include_ipg	(Optional) the xml qos_include_ipg configuration

### Command Mode

- /exec

## show hardware qos ing-pg-hdrm-reserve

```
show hardware qos ing-pg-hdrm-reserve [ module <module> ] [ __readonly__
TABLE_qos_ing_pg_hdrm_reserve <module> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-hdrm-reserve	Show ing-pg-hdrm-reserve config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_hdrm_reserve	(Optional) the xml qos_ing_pg_hdrm_reserve configuration

### Command Mode

- /exec

## show hardware qos ing-pg-no-min

```
show hardware qos ing-pg-no-min [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_no_min [
<module> ] <ingress_pg_min> <pg_min_value> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-no-min	Show ing-pg-no-min config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_no_min	(Optional) the xml qos_ing_pg_no_min configuration
<i>ingress_pg_min</i>	(Optional) Enable/Disable PG Min
<i>pg_min_value</i>	(Optional) PG Min Value

### Command Mode

- /exec



# show hardware qos ing-pg-share

```
show hardware qos ing-pg-share [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_share <module> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-share	Show ing-pg-share config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_share	(Optional) the xml qos_ing_pg_share configuration

## Command Mode

- /exec

## show hardware qos min-buffer

```
show hardware qos min-buffer [ module <module> ] [ __readonly__ TABLE_qos_min_buffer_profile [
<module> ] <buff-prof-desc> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
min-buffer	Show min-buffer config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_min_buffer_profile	(Optional) the xml qos_min_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

### Command Mode

- /exec

## show hardware qos ns-buffer-profile

```
show hardware qos ns-buffer-profile [ module <module> ] [ __readonly__ TABLE_qos_ns_buffer_profile
<module> <buff-prof-desc> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ns-buffer-profile	Show ns-buffer-profile config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ns_buffer_profile	(Optional) the xml qos_ns_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

### Command Mode

- /exec

## show hardware rate-limiter

```
show hardware rate-limiter [ module <module> ] [ layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2
<l2-opts> | <opts> | fl <fl-opts> | span-egress | urpf-fail ] [ __readonly__ TABLE hardware_rate_limiter
<rate-limit-class> <class-descr> <module> <rate-limit-configured> [ <rate-limit-allowed> ] [
<rate-limit-dropped> ] [ <rate-limit-total> ] ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
rate-limiter	Show Rate-Limiter configs and statistics
layer-3	(Optional) Layer-3 control and Routed packets
<i>l3-opts</i>	(Optional)
multicast	(Optional) Multicast data packets
<i>mcast-opts</i>	(Optional)
layer-2	(Optional) Layer-2 control and Bridged packets
<i>l2-opts</i>	(Optional)
<i>opts</i>	(Optional)
fl	(Optional) Control packets from F1 modules to supervisor
<i>fl-opts</i>	(Optional)
span-egress	(Optional) SPAN/ERSPAN egress packets
urpf-fail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
__readonly__	(Optional)
TABLE hardware_rate_limiter	(Optional) the xml Rate-Limiter configuration and statistics
<i>rate-limit-class</i>	(Optional) the xml rate limiter class
<i>class-descr</i>	(Optional) class description
<i>module</i>	(Optional) the xml module number
<i>rate-limit-configured</i>	(Optional) the xml rate-limit-configured
<i>rate-limit-allowed</i>	(Optional) the xml rate-limit-allowed

<i>rate-limit-dropped</i>	(Optional) the xml rate-limit-dropped
<i>rate-limit-total</i>	(Optional) the xml rate-limit-total

**Command Mode**

- /exec

## show hardware rate-limiter span-egress

```
show hardware rate-limiter span-egress [ __readonly__ TABLE hardware_rate_limiter <rate-limit-class>
<class-descr> <module> <rate-limit-configured> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total>
]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
rate-limiter	Show Rate-Limiter configs and statistics
span-egress	SPAN/ERSPAN egress packets
<i>__readonly__</i>	(Optional)
<i>TABLE hardware_rate_limiter</i>	(Optional) the xml Rate-Limiter configuration and statistics
<i>rate-limit-class</i>	(Optional) the xml rate limiter class
<i>class-descr</i>	(Optional) class description
<i>module</i>	(Optional) the xml module number
<i>rate-limit-configured</i>	(Optional) the xml rate-limit-configured
<i>rate-limit-allowed</i>	(Optional) the xml rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) the xml rate-limit-dropped
<i>rate-limit-total</i>	(Optional) the xml rate-limit-total

### Command Mode

- /exec

# show hostname

```
show { hostname | switchname } [ __readonly__ { <hostname> } ]
```

## Syntax Description

show	Show running system information
hostname	show the system's hostname
switchname	show the system's hostname
__readonly__	(Optional) Read Only
<i>hostname</i>	(Optional)

## Command Mode

- /exec

# show hosts

```
show hosts [ __readonly__ [ <dnslookup> ] [ <dnsnameservice> ] [ { TABLE_vrf <vrfname> [
<defaultdomains> ] [ <additionaldomainserver> ] [ <domainservers> ] [ <nameservice> ] [ <dhcpdomains>
] [ <dhcpdomainservers> ] } ] [ { TABLE_dnsconfigvrf <dnsvrfname> [ <usevrf> ] [ <token> ] [ {
TABLE_dnsconfigvrfconfig <config> } ] } ] [ { TABLE_hosts <host> [ <address> ] } ] ]
```

## Syntax Description

show	Show running system information
hosts	Show information about DNS
__readonly__	(Optional)
<i>dnslookup</i>	(Optional) dns lookup enable status
<i>dnsnameservice</i>	(Optional) name service
TABLE_vrf	(Optional) vrf domain servers
<i>vrfname</i>	(Optional) vrf name
<i>defaultdomains</i>	(Optional) default domain
<i>additionaldomainserver</i>	(Optional) additionaldomain
<i>domainservers</i>	(Optional) domain server
<i>nameservice</i>	(Optional) name service
<i>dhcpdomains</i>	(Optional) dhcp domains
<i>dhcpdomainservers</i>	(Optional) dhcpservers
TABLE_dnsconfigvrf	(Optional) dns config vrf
<i>dnsvrfname</i>	(Optional) vrfname
<i>usevrf</i>	(Optional) usevrf
<i>token</i>	(Optional) token
TABLE_dnsconfigvrfconfig	(Optional) dns config vrf config
<i>config</i>	(Optional) token
TABLE_hosts	(Optional) all configured dns hosts
<i>host</i>	(Optional) xml host information
<i>address</i>	(Optional) xml address information

## Command Mode



- /exec

## show hsrp

```
show hsrp [ interface <interface-id> ] [ group <group-number> ] [ active | init | learn | listen | speak | standby
] + [ all ] [ brief [ all ] | detail ] [ ipv4 | ipv6 ] [ __readonly__ <show_hsrp_start> { TABLE_grp_detail
<sh_if_index> <sh_group_num> <sh_group_type> <sh_group_version> <sh_group_state> [ <sh_state_reason>
] <sh_prio> <sh_cfg_prio> <sh_fwd_lower_threshold> <sh_fwd_upper_threshold> <sh_can_forward>
<sh_preempt> [ <sh_preempt_min_delay> ] [ <sh_preempt_min_delay_active> ] [ <sh_preempt_reload_delay>
] [ <sh_preempt_reload_delay_active> ] [ <sh_preempt_sync_delay> ] [ <sh_preempt_sync_delay_active> ]
<sh_cur_hello> <sh_cur_hello_attr> [ <sh_cfg_hello> ] [ <sh_cfg_hello_attr> ] [ <sh_active_hello> ]
<sh_cur_hold> <sh_cur_hold_attr> [ <sh_cfg_hold> ] [ <sh_cfg_hold_attr> ] [ <sh_vip> | <sh_vip_v6> ]
<sh_vip_attr> <sh_num_vip_sec> { [ TABLE_grp_vip_sec <sh_vip_sec> ] } [ <sh_active_router_addr> |
<sh_active_router_addr_v6> ] <sh_active_router_prio> [ <sh_active_router_timer> ] [
<sh_standby_router_addr> | <sh_standby_router_addr_v6> ] <sh_standby_router_prio>
<sh_authentication_type> <sh_authentication_data> [ <sh_keystring_attr> ] [ <sh_keystring_timeout> ] [
<sh_keystring_cur_valid> ] <sh_vmac> <sh_vmac_attr> <sh_num_of_state_changes> [ <sh_last_state_change>
] <sh_num_of_total_state_changes> [ <sh_last_total_state_change> ] { [ TABLE_grp_track_obj <sh_track_obj>
<sh_track_obj_state> <sh_track_obj_prio> ] } <sh_num_track_obj> <sh_ip_redund_name>
<sh_ip_redund_name_attr> } <show_hsrp_end> ]
```

### Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
active	(Optional) Groups in active state
init	(Optional) Groups in init state
listen	(Optional) Groups in listen state
standby	(Optional) Groups in standby state
learn	(Optional) Groups in learn state
speak	(Optional) Groups in speak state
group	(Optional) Group number
<i>group-number</i>	(Optional) Group Number
all	(Optional) Include groups in disabled state
brief	(Optional) Brief output
detail	(Optional) Detailed output
ipv4	(Optional) HSRP V4 Groups
ipv6	(Optional) HSRP V6 Groups

<i>all</i>	(Optional) Display all VIPs
<i>__readonly__</i>	(Optional) Read only
<i>show_hsrp_start</i>	(Optional) Show hsrp start
<i>TABLE_grp_detail</i>	(Optional) Group table detail
<i>sh_if_index</i>	(Optional) Interface type and number
<i>sh_group_num</i>	(Optional) Group number
<i>sh_group_state</i>	(Optional) HSRP state
<i>sh_state_reason</i>	(Optional) Reason
<i>sh_group_type</i>	(Optional) Group type
<i>sh_group_version</i>	(Optional) Group version
<i>sh_prio</i>	(Optional) Priority
<i>sh_cfg_prio</i>	(Optional) Configured priority
<i>sh_fwd_lower_threshold</i>	(Optional) Lower threshold value
<i>sh_fwd_upper_threshold</i>	(Optional) Upper threshold value
<i>sh_can_forward</i>	(Optional) Current forwarding status
<i>sh_preempt</i>	(Optional) Preemption enabled/not
<i>sh_preempt_min_delay</i>	(Optional) Preemption min delay
<i>sh_preempt_min_delay_active</i>	(Optional) Active preemption min delay
<i>sh_preempt_reload_delay</i>	(Optional) Preemption reload delay
<i>sh_preempt_reload_delay_active</i>	(Optional) Active preemption reload delay
<i>sh_preempt_sync_delay</i>	(Optional) Preemption sync delay
<i>sh_preempt_sync_delay_active</i>	(Optional) Active preemption sync delay
<i>sh_cur_hello</i>	(Optional) Current hello time
<i>sh_cur_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_cfg_hello</i>	(Optional) Configured hello time
<i>sh_cfg_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_active_hello</i>	(Optional) Active hello time
<i>sh_cur_hold</i>	(Optional) Current hold time
<i>sh_cur_hold_attr</i>	(Optional) Hello time in ms/not

<i>sh_cfg_hold</i>	(Optional) Configured hold time
<i>sh_cfg_hold_attr</i>	(Optional) Hello time in ms/not
<i>sh_vip</i>	(Optional) Virtual IP address
<i>sh_vip_attr</i>	(Optional) Virtual IP address attribute
<i>sh_num_vip_sec</i>	(Optional) Number of Secondary virtual IP address
TABLE_grp_vip_sec	(Optional) Group secondary ip address
<i>sh_vip_sec</i>	(Optional) Secondary virtual IP address
<i>sh_active_router_addr</i>	(Optional) Active router address
<i>sh_active_router_prio</i>	(Optional) Active router priority
<i>sh_active_router_timer</i>	(Optional) Active router expiry timer
<i>sh_standby_router_addr</i>	(Optional) Standby router address
<i>sh_standby_router_prio</i>	(Optional) Standby router priority
<i>sh_authentication_type</i>	(Optional) Authentication type
<i>sh_authentication_data</i>	(Optional) Authentication data
<i>sh_keystring_attr</i>	(Optional) Keystring attribute
<i>sh_keystring_timeout</i>	(Optional) Keystring timeout
<i>sh_keystring_cur_valid</i>	(Optional) Keystring current valid time
<i>sh_vmac</i>	(Optional) Virtual MAC
<i>sh_vmac_attr</i>	(Optional) Virtual MAC attribute
<i>sh_num_of_state_changes</i>	(Optional) Number of state changes
<i>sh_last_state_change</i>	(Optional) Last state change time
<i>sh_num_of_total_state_changes</i>	(Optional) Number of total state changes
<i>sh_last_total_state_change</i>	(Optional) Last total state change time
<i>sh_num_track_obj</i>	(Optional) Number of tracked objects
TABLE_grp_track_obj	(Optional) Group tracked objects
<i>sh_track_obj</i>	(Optional) Tracked object
<i>sh_track_obj_state</i>	(Optional) State of tracked object
<i>sh_track_obj_prio</i>	(Optional) Tracked object priority decrement
<i>sh_ip_redund_name</i>	(Optional) IP redundancy name

<i>sh_ip_redund_name_attr</i>	(Optional) IP redundancy name attribute
<i>show_hsrp_end</i>	(Optional) End of Group

**Command Mode**

- /exec

# show hsrp anycast

show hsrp anycast [ <id> { ipv4 | ipv6 | both } ] [ brief ]

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
<i>id</i>	(Optional) Bundle number
ipv4	(Optional) Associate IP Version 4 for the bundle
ipv6	(Optional) Associate IP Version 6 for the bundle
both	(Optional) Associate IP Version 4 and 6 for the bundle
brief	(Optional) Brief output

## Command Mode

- /exec

# show hsrp anycast interface vlan

show hsrp anycast interface { vlan | bdi } <id>

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
interface	Bundle on this interface Interface
vlan	VLAN interface
bdi	Bridge-Domain interface
<i>id</i>	VLAN number

## Command Mode

- /exec

## show hsrp anycast remote-db

show hsrp anycast remote-db [ <id> { ipv4 | ipv6 | both } ]

### Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
remote-db	Remote data base for the bundle
<i>id</i>	(Optional) Bundle number
ipv4	(Optional) Associate IP Version 4 for the bundle
ipv6	(Optional) Associate IP Version 6 for the bundle
both	(Optional) Associate IP Version 4 and 6 for the bundle

### Command Mode

- /exec



# show hsrp anycast summary

show hsrp anycast summary

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
summary	Show HSRP summary

## Command Mode

- /exec

## show hsrp bfd-sessions

```
show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ [ TABLE_bfd_sess [
<interface> ] [ <list_size> ] { [ <src_addr> ] } { [ <dst_addr> ] } [ <ref_count> ] { [ TABLE_ref_groups [
<ref_group_id> ] } ] } { [ TABLE_hist_groups [ <hist_group_id> ] [ <hist_operation> ] [ <hist_rel_time> ] [
<hist_abs_time> ] [ <hist_ref_count> ] [ <hist_group_state> ] [ <hist_status> ] [ <hist_op_reason> ] ] } ] ]
```

### Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
bfd-sessions	BFD sessions
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
to	(Optional) To IP address
<i>ipaddress</i>	(Optional) Sessions to IP address
<i>__readonly__</i>	(Optional)
TABLE_bfd_sess	(Optional)
<i>interface</i>	(Optional) Interface
<i>list_size</i>	(Optional) List size
<i>src_addr</i>	(Optional) IPv4 Source address
<i>dst_addr</i>	(Optional) IPv4 Destination address
<i>ref_count</i>	(Optional) Ref count
TABLE_ref_groups	(Optional)
<i>ref_group_id</i>	(Optional) Group id
TABLE_hist_groups	(Optional)
<i>hist_group_id</i>	(Optional) Group id
<i>hist_operation</i>	(Optional) Operation
<i>hist_rel_time</i>	(Optional) Relative time
<i>hist_abs_time</i>	(Optional) Absolute time
<i>hist_ref_count</i>	(Optional) Ref count
<i>hist_group_state</i>	(Optional) Group state

<i>hist_status</i>	(Optional) Status
<i>hist_op_reason</i>	(Optional) Op reason

**Command Mode**

- /exec

# show hsrp delay

```
show hsrp delay [ interface <interface-id> ] [ __readonly__ TABLE_delay <interface> <min_delay>
<reload_delay> ]
```

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
delay	Group initialisation delay
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
TABLE_delay	(Optional)
<i>interface</i>	(Optional) Interface
<i>min_delay</i>	(Optional) Min delay
<i>reload_delay</i>	(Optional) Reload delay

## Command Mode

- /exec

# show hsrp mgo

```
show hsrp mgo [ name <name> | brief ] [ __readonly__ TABLE_hsrp_mgo <master_name> <master_interface>
<master_address_family> <master_group_id> [ <master_version> ] <master_state> [ <master_down_reason>
] [ { TABLE_slave <slave_interface> <slave_group_id> <slave_state> [ <slave_down_reason> } ] [
<num_slave_group> ] ]
```

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
mgo	Show HSRP mgo details
name	(Optional) Redundancy name string
<i>name</i>	(Optional) name string
brief	(Optional) show HSRP mgo brief
<i>__readonly__</i>	(Optional)
TABLE_hsrp_mgo	(Optional)
<i>master_name</i>	(Optional) HSRP master name
<i>master_interface</i>	(Optional) HSRP master interface
<i>master_address_family</i>	(Optional) HSRP master AF
<i>master_group_id</i>	(Optional) HSRP master group ID
<i>master_version</i>	(Optional) HSRP master version
<i>master_state</i>	(Optional) HSRP master state
<i>master_down_reason</i>	(Optional) HSRP master down reason
TABLE_slave	(Optional) Slave table
<i>slave_interface</i>	(Optional) HSRP slave interface
<i>slave_group_id</i>	(Optional) HSRP slave group id
<i>slave_state</i>	(Optional) HSRP slave state
<i>slave_down_reason</i>	(Optional) HSRP slave down reason
<i>num_slave_group</i>	(Optional) HSRP number of slave groups

## Command Mode

- /exec

## show hsrp summary

```
show hsrp summary [ __readonly__ <switchover_notify_rxed> <bfd_enabled> <num_of_groups>
<num_of_v4_v1_groups> <num_of_v4_v2_groups> <num_of_v6_v2_groups> <num_of_active_groups>
<num_of_standby_groups> <num_of_listen_groups> <num_of_v6_active_groups>
<num_of_v6_standby_groups> <num_of_v6_listen_groups> <num_of_hsrp_enabled_ifs> <counter_pkts_tx>
<counter_pkts_tx_failure> <counter_pkts_in> <counter_pkts_bad_vr> <counter_mts_rx> ]
```

### Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
summary	Show HSRP summary
<i>__readonly__</i>	(Optional)
<i>switchover_notify_rxed</i>	(Optional) Switchover notification received (1 => active)
<i>bfd_enabled</i>	(Optional) BFD status
<i>num_of_groups</i>	(Optional) Total number of groups
<i>num_of_v4_v1_groups</i>	(Optional) Number of IPv4 V1 groups
<i>num_of_v4_v2_groups</i>	(Optional) Number of IPv4 V2 groups
<i>num_of_v6_v2_groups</i>	(Optional) Number of IPv6 V2 groups
<i>num_of_active_groups</i>	(Optional) Number of active groups
<i>num_of_standby_groups</i>	(Optional) Number of standby groups
<i>num_of_listen_groups</i>	(Optional) Number of listen groups
<i>num_of_v6_active_groups</i>	(Optional) Number of IPv6 active groups
<i>num_of_v6_standby_groups</i>	(Optional) Number of IPv6 standby groups
<i>num_of_v6_listen_groups</i>	(Optional) Number of IPv6 listen groups
<i>num_of_hsrp_enabled_ifs</i>	(Optional) Number of HSRP enabled interfaces
<i>counter_pkts_tx</i>	(Optional) Number of packet transmission successes
<i>counter_pkts_tx_failure</i>	(Optional) Number of packet transmission failure
<i>counter_pkts_in</i>	(Optional) Number of packets received successfully
<i>counter_pkts_bad_vr</i>	(Optional) Number of packets for unknown groups
<i>counter_mts_rx</i>	(Optional) Number of MTS messages received

### Command Mode

- /exec







## I Show Commands

---

- [show icam entries acl module inst](#), on page 625
- [show icam health](#), on page 627
- [show icam itd](#), on page 628
- [show icam prediction entries acl module inst](#), on page 629
- [show icam prediction scale](#), on page 631
- [show icam scale](#), on page 637
- [show ieth-header-decode](#), on page 644
- [show inband-telemetry exporter](#), on page 645
- [show inband-telemetry flow-profile](#), on page 646
- [show inband-telemetry monitor](#), on page 647
- [show inband-telemetry queue-profile](#), on page 648
- [show inband-telemetry record](#), on page 649
- [show inband-telemetry sessions](#), on page 650
- [show inband-telemetry watchlist](#), on page 651
- [show incompatibility-all system](#), on page 652
- [show incompatibility system](#), on page 653
- [show install](#), on page 654
- [show install all failed-standby](#), on page 655
- [show install all failure-reason](#), on page 656
- [show install all impact](#), on page 657
- [show install all status](#), on page 658
- [show install all time-stats](#), on page 659
- [show install log](#), on page 660
- [show install mode](#), on page 661
- [show install packages](#), on page 662
- [show install patches](#), on page 663
- [show interface](#), on page 664
- [show interface](#), on page 668
- [show interface](#), on page 673
- [show interface](#), on page 678
- [show interface](#), on page 686
- [show interface](#), on page 690
- [show interface](#), on page 710

- [show interface](#), on page 712
- [show interface](#), on page 718
- [show interface](#), on page 720
- [show interface aggregate-counters](#), on page 724
- [show interface aggregate-counters](#), on page 727
- [show interface bcredit](#), on page 730
- [show interface brief](#), on page 731
- [show interface brief](#), on page 732
- [show interface brief](#), on page 740
- [show interface brief](#), on page 742
- [show interface brief](#), on page 743
- [show interface brief](#), on page 745
- [show interface brief](#), on page 746
- [show interface brief](#), on page 747
- [show interface brief](#), on page 748
- [show interface cable-diagnostics-tdr](#), on page 749
- [show interface capabilities](#), on page 750
- [show interface capabilities](#), on page 752
- [show interface capabilities](#), on page 754
- [show interface counters](#), on page 756
- [show interface counters](#), on page 758
- [show interface counters](#), on page 762
- [show interface counters](#), on page 763
- [show interface counters](#), on page 765
- [show interface counters](#), on page 767
- [show interface counters](#), on page 769
- [show interface counters](#), on page 771
- [show interface counters brief](#), on page 772
- [show interface counters brief](#), on page 774
- [show interface counters detailed](#), on page 776
- [show interface counters detailed](#), on page 788
- [show interface counters detailed](#), on page 791
- [show interface counters detailed](#), on page 793
- [show interface counters detailed all](#), on page 799
- [show interface counters detailed all](#), on page 807
- [show interface counters detailed all](#), on page 808
- [show interface counters detailed all](#), on page 811
- [show interface counters detailed all](#), on page 813
- [show interface counters detailed cached](#), on page 814
- [show interface counters details](#), on page 822
- [show interface counters details](#), on page 823
- [show interface counters errors](#), on page 827
- [show interface counters errors](#), on page 829
- [show interface counters errors](#), on page 831
- [show interface counters snmp](#), on page 832
- [show interface counters snmp](#), on page 834

- [show interface counters storm-control, on page 836](#)
- [show interface counters storm-control, on page 837](#)
- [show interface counters table, on page 838](#)
- [show interface counters table verbose, on page 839](#)
- [show interface counters trunk, on page 840](#)
- [show interface debounce, on page 841](#)
- [show interface debounce, on page 842](#)
- [show interface description, on page 843](#)
- [show interface description, on page 844](#)
- [show interface description, on page 845](#)
- [show interface description, on page 846](#)
- [show interface description, on page 847](#)
- [show interface description, on page 848](#)
- [show interface description, on page 849](#)
- [show interface description, on page 850](#)
- [show interface detail-counters, on page 851](#)
- [show interface fcoe, on page 855](#)
- [show interface fec, on page 856](#)
- [show interface flowcontrol, on page 857](#)
- [show interface flowcontrol, on page 858](#)
- [show interface hardware-mappings, on page 859](#)
- [show interface mac-address, on page 860](#)
- [show interface mac-address, on page 861](#)
- [show interface priority-flow-control, on page 862](#)
- [show interface private-vlan mapping, on page 863](#)
- [show interface pruning, on page 864](#)
- [show interface snmp-ifindex, on page 865](#)
- [show interface status, on page 866](#)
- [show interface status, on page 867](#)
- [show interface status, on page 868](#)
- [show interface status, on page 870](#)
- [show interface status, on page 871](#)
- [show interface status, on page 872](#)
- [show interface status, on page 873](#)
- [show interface status err-disabled, on page 874](#)
- [show interface status err-disabled, on page 875](#)
- [show interface status err-vlans, on page 876](#)
- [show interface status err-vlans, on page 877](#)
- [show interface switchport, on page 878](#)
- [show interface switchport, on page 880](#)
- [show interface switchport backup, on page 882](#)
- [show interface transceiver, on page 884](#)
- [show interface transceiver, on page 892](#)
- [show interface transceiver, on page 896](#)
- [show interface trunk, on page 906](#)
- [show interface trunk, on page 908](#)

- [show interface trunk vsan, on page 910](#)
- [show interface trunk vsan, on page 911](#)
- [show interface untagged-cos, on page 912](#)
- [show interface vlan mapping, on page 913](#)
- [show inventory, on page 914](#)
- [show ip adjacency, on page 915](#)
- [show ip amt relay, on page 918](#)
- [show ip amt route, on page 919](#)
- [show ip amt tunnel, on page 920](#)
- [show ip arp, on page 922](#)
- [show ip arp anycast topo-info, on page 924](#)
- [show ip arp client, on page 925](#)
- [show ip arp controller-statistics, on page 926](#)
- [show ip arp esi, on page 927](#)
- [show ip arp inspection, on page 928](#)
- [show ip arp inspection interfaces, on page 929](#)
- [show ip arp inspection log, on page 930](#)
- [show ip arp inspection statistics, on page 931](#)
- [show ip arp inspection vlan, on page 932](#)
- [show ip arp l2 statistics interface, on page 933](#)
- [show ip arp multihoming-statistics, on page 934](#)
- [show ip arp off-list, on page 936](#)
- [show ip arp open-flow error-statistics, on page 937](#)
- [show ip arp statistics, on page 939](#)
- [show ip arp suppression-cache, on page 943](#)
- [show ip arp suppression topo-info, on page 946](#)
- [show ip arp tunnel-statistics, on page 947](#)
- [show ip arp vpc-statistics, on page 949](#)
- [show ip as-path-access-list, on page 952](#)
- [show ip client, on page 953](#)
- [show ip community-list, on page 954](#)
- [show ip dhcp global statistics, on page 955](#)
- [show ip dhcp option82 suboption info interface, on page 957](#)
- [show ip dhcp relay, on page 958](#)
- [show ip dhcp relay address, on page 960](#)
- [show ip dhcp relay information trusted-sources, on page 961](#)
- [show ip dhcp relay statistics, on page 962](#)
- [show ip dhcp snooping, on page 966](#)
- [show ip dhcp snooping binding, on page 967](#)
- [show ip dhcp snooping statistics, on page 968](#)
- [show ip dhcp status, on page 969](#)
- [show ip dns source-interface, on page 970](#)
- [show ip dns source-interface vrf all, on page 971](#)
- [show ip eigrp, on page 972](#)
- [show ip eigrp accounting, on page 976](#)
- [show ip eigrp interfaces, on page 978](#)

- [show ip eigrp traffic](#), on page 981
- [show ip extcommunity-list](#), on page 983
- [show ip fib distribution](#), on page 984
- [show ip fib distribution clients](#), on page 985
- [show ip fib distribution mroute](#), on page 986
- [show ip fib distribution multicast](#), on page 988
- [show ip fib distribution state](#), on page 989
- [show ip fib mroute](#), on page 990
- [show ip fib route](#), on page 992
- [show ip ftp source-interface](#), on page 994
- [show ip ftp source-interface vrf all](#), on page 995
- [show ip http source-interface](#), on page 996
- [show ip http source-interface vrf all](#), on page 997
- [show ip igmp groups](#), on page 998
- [show ip igmp interface](#), on page 1000
- [show ip igmp local-groups](#), on page 1004
- [show ip igmp policy statistics reports](#), on page 1006
- [show ip igmp snooping](#), on page 1007
- [show ip igmp snooping explicit-tracking](#), on page 1009
- [show ip igmp snooping filter details](#), on page 1011
- [show ip igmp snooping groups](#), on page 1012
- [show ip igmp snooping lookup-mode](#), on page 1015
- [show ip igmp snooping mac-oif](#), on page 1016
- [show ip igmp snooping mrouter](#), on page 1017
- [show ip igmp snooping pw vlan brief](#), on page 1019
- [show ip igmp snooping querier](#), on page 1020
- [show ip igmp snooping report statistics](#), on page 1022
- [show ip igmp snooping statistics](#), on page 1023
- [show ip igmp vrf all](#), on page 1027
- [show ip interface](#), on page 1028
- [show ip lisp](#), on page 1033
- [show ip lisp data-cache](#), on page 1034
- [show ip lisp locator-hash](#), on page 1035
- [show ip lisp map-cache](#), on page 1036
- [show ip lisp statistics](#), on page 1037
- [show ip lisp translate-cache](#), on page 1038
- [show ip load-sharing](#), on page 1039
- [show ip local policy](#), on page 1040
- [show ip logging](#), on page 1041
- [show ip mbgp](#), on page 1042
- [show ip mbgp](#), on page 1043
- [show ip mbgp community](#), on page 1045
- [show ip mbgp dampening](#), on page 1046
- [show ip mbgp extcommunity](#), on page 1047
- [show ip mbgp flap-statistics](#), on page 1048
- [show ip mbgp neighbors](#), on page 1049

- [show ip mbgp nexthop-database](#), on page 1051
- [show ip mbgp nexthop](#), on page 1052
- [show ip mbgp prefix-list](#), on page 1053
- [show ip mbgp received-paths](#), on page 1054
- [show ip mroute](#), on page 1055
- [show ip msdp count](#), on page 1059
- [show ip msdp mesh-group](#), on page 1060
- [show ip msdp peer](#), on page 1061
- [show ip msdp policy statistics sa-policy in](#), on page 1064
- [show ip msdp rpf](#), on page 1066
- [show ip msdp sa](#), on page 1068
- [show ip msdp sources](#), on page 1070
- [show ip msdp statistics](#), on page 1071
- [show ip msdp summary](#), on page 1073
- [show ip nat-alias](#), on page 1075
- [show ip nat max](#), on page 1076
- [show ip nat statistics](#), on page 1077
- [show ip nat timeout](#), on page 1080
- [show ip nat translations](#), on page 1081
- [show ip ospf](#), on page 1083
- [show ip ospf border-routers](#), on page 1088
- [show ip ospf database](#), on page 1090
- [show ip ospf database database-summary](#), on page 1093
- [show ip ospf database detail](#), on page 1095
- [show ip ospf interface](#), on page 1101
- [show ip ospf interface brief](#), on page 1104
- [show ip ospf lsa-content-changed-list](#), on page 1106
- [show ip ospf neighbors](#), on page 1108
- [show ip ospf neighbors detail](#), on page 1110
- [show ip ospf neighbors summary](#), on page 1113
- [show ip ospf request-list](#), on page 1115
- [show ip ospf retransmission-list](#), on page 1117
- [show ip ospf route](#), on page 1119
- [show ip ospf route summary](#), on page 1122
- [show ip ospf segment-routing adj-sid-database](#), on page 1124
- [show ip ospf segment-routing global-block](#), on page 1125
- [show ip ospf segment-routing sid-database](#), on page 1126
- [show ip ospf sham-links](#), on page 1128
- [show ip ospf sham-links brief](#), on page 1132
- [show ip ospf statistics](#), on page 1133
- [show ip ospf summary-address](#), on page 1137
- [show ip ospf traffic](#), on page 1138
- [show ip ospf virtual-links](#), on page 1142
- [show ip ospf virtual-links brief](#), on page 1146
- [show ip pim config-sanity](#), on page 1147
- [show ip pim df](#), on page 1149

- [show ip pim fabric info](#), on page 1151
- [show ip pim fabric legacy-vlans](#), on page 1152
- [show ip pim group-range](#), on page 1153
- [show ip pim host-proxy](#), on page 1154
- [show ip pim interface](#), on page 1155
- [show ip pim mdt](#), on page 1159
- [show ip pim mdt bgp](#), on page 1161
- [show ip pim mdt history interval](#), on page 1162
- [show ip pim mdt receive](#), on page 1163
- [show ip pim mdt send](#), on page 1164
- [show ip pim neighbor](#), on page 1165
- [show ip pim oif-list](#), on page 1166
- [show ip pim policy statistics](#), on page 1168
- [show ip pim policy statistics jp](#), on page 1170
- [show ip pim route](#), on page 1171
- [show ip pim rp-hash](#), on page 1175
- [show ip pim rp](#), on page 1176
- [show ip pim statistics](#), on page 1179
- [show ip pim vrf](#), on page 1181
- [show ip ping source-interface](#), on page 1182
- [show ip ping source-interface vrf all](#), on page 1183
- [show ip policy](#), on page 1184
- [show ip prefix-list](#), on page 1185
- [show ip process](#), on page 1186
- [show ip rip](#), on page 1188
- [show ip rip interface](#), on page 1190
- [show ip rip neighbor](#), on page 1192
- [show ip rip policy statistics redistribute](#), on page 1194
- [show ip rip route](#), on page 1196
- [show ip rip statistics](#), on page 1198
- [show ip route](#), on page 1200
- [show ip sla application](#), on page 1204
- [show ip sla configuration](#), on page 1205
- [show ip sla enhanced-history collection-statistics](#), on page 1208
- [show ip sla enhanced-history distribution-statistics](#), on page 1212
- [show ip sla group schedule](#), on page 1213
- [show ip sla history](#), on page 1214
- [show ip sla reaction-configuration](#), on page 1216
- [show ip sla reaction-trigger](#), on page 1217
- [show ip sla responder](#), on page 1218
- [show ip sla statistics](#), on page 1220
- [show ip sla twamp connection detail](#), on page 1226
- [show ip sla twamp connection requests](#), on page 1227
- [show ip sla twamp session](#), on page 1228
- [show ip sla twamp standards](#), on page 1229
- [show ip ssh source-interface](#), on page 1230

- [show ip ssh source-interface vrf all](#), on page 1231
- [show ip static-route](#), on page 1232
- [show ip tcp mss](#), on page 1234
- [show ip telnet source-interface](#), on page 1235
- [show ip telnet source-interface vrf all](#), on page 1236
- [show ip tftp source-interface](#), on page 1237
- [show ip tftp source-interface vrf all](#), on page 1238
- [show ip traceroute source-interface](#), on page 1239
- [show ip traceroute source-interface vrf all](#), on page 1240
- [show ip traffic](#), on page 1241
- [show ip udp relay](#), on page 1248
- [show ip udp relay interface](#), on page 1249
- [show ip udp relay object-group](#), on page 1250
- [show ip verify source](#), on page 1251
- [show ipv6 adjacency](#), on page 1252
- [show ipv6 adjacency aggregate-prefix](#), on page 1255
- [show ipv6 adjacency subnet-prefix](#), on page 1256
- [show ipv6 amt tunnel](#), on page 1257
- [show ipv6 bgp](#), on page 1259
- [show ipv6 bgp](#), on page 1260
- [show ipv6 bgp community](#), on page 1261
- [show ipv6 bgp dampening](#), on page 1262
- [show ipv6 bgp extcommunity](#), on page 1263
- [show ipv6 bgp flap-statistics](#), on page 1264
- [show ipv6 bgp neighbors](#), on page 1265
- [show ipv6 bgp nexthop-database](#), on page 1266
- [show ipv6 bgp nexthop](#), on page 1267
- [show ipv6 bgp received-paths](#), on page 1268
- [show ipv6 bgp regexp](#), on page 1269
- [show ipv6 bgp summary](#), on page 1270
- [show ipv6 client](#), on page 1271
- [show ipv6 dhcp guard policy](#), on page 1273
- [show ipv6 dhcp relay](#), on page 1274
- [show ipv6 dhcp relay statistics](#), on page 1275
- [show ipv6 fragments](#), on page 1279
- [show ipv6 icmp](#), on page 1280
- [show ipv6 icmp global traffic](#), on page 1282
- [show ipv6 icmp interface](#), on page 1285
- [show ipv6 icmp l2 statistics](#), on page 1291
- [show ipv6 icmp nd local-proxy stats](#), on page 1292
- [show ipv6 icmp off-list](#), on page 1293
- [show ipv6 icmp vaddr](#), on page 1294
- [show ipv6 icmp vpc-statistics](#), on page 1298
- [show ipv6 interface](#), on page 1301
- [show ipv6 lisp data-cache](#), on page 1306
- [show ipv6 local policy](#), on page 1307



- [show ipv6 mld groups](#), on page 1308
- [show ipv6 mld local-groups](#), on page 1310
- [show ipv6 mroute](#), on page 1311
- [show ipv6 mtu](#), on page 1314
- [show ipv6 nd ra dns search-list](#), on page 1316
- [show ipv6 nd ra dns server](#), on page 1317
- [show ipv6 nd rguard policy](#), on page 1319
- [show ipv6 neighbor binding](#), on page 1320
- [show ipv6 neighbor binding mac](#), on page 1321
- [show ipv6 neighbor static](#), on page 1322
- [show ipv6 pim df](#), on page 1323
- [show ipv6 pim fabric info](#), on page 1325
- [show ipv6 pim fabric legacy-vlans](#), on page 1326
- [show ipv6 pim group-range](#), on page 1327
- [show ipv6 pim interface](#), on page 1328
- [show ipv6 pim neighbor](#), on page 1332
- [show ipv6 pim oif-list](#), on page 1333
- [show ipv6 pim policy statistics jp](#), on page 1335
- [show ipv6 pim route](#), on page 1336
- [show ipv6 pim rp-hash](#), on page 1338
- [show ipv6 pim rp](#), on page 1339
- [show ipv6 pim statistics](#), on page 1341
- [show ipv6 pim vrf](#), on page 1343
- [show ipv6 policy](#), on page 1345
- [show ipv6 prefix-list](#), on page 1346
- [show ipv6 process](#), on page 1347
- [show ipv6 rguard statistics](#), on page 1349
- [show ipv6 rip policy statistics redistribute](#), on page 1350
- [show ipv6 route](#), on page 1352
- [show ipv6 routers](#), on page 1355
- [show ipv6 snooping capture-policy](#), on page 1357
- [show ipv6 snooping counters vlan](#), on page 1358
- [show ipv6 snooping events](#), on page 1360
- [show ipv6 snooping features](#), on page 1361
- [show ipv6 snooping messages](#), on page 1362
- [show ipv6 snooping policies](#), on page 1363
- [show ipv6 snooping policy](#), on page 1364
- [show ipv6 snooping pss database](#), on page 1366
- [show ipv6 static-route](#), on page 1367
- [show ipv6 traffic](#), on page 1369
- [show isis](#), on page 1372
- [show isis adjacency](#), on page 1376
- [show isis csnp](#), on page 1379
- [show isis database](#), on page 1381
- [show isis distribute-ls](#), on page 1386
- [show isis dynamic-flooding](#), on page 1390

- [show isis interface](#), on page 1392
- [show isis ipv6 redistribute route](#), on page 1398
- [show isis ipv6 route](#), on page 1400
- [show isis ipv6 summary-address](#), on page 1404
- [show isis lslib](#), on page 1406
- [show isis mesh-group](#), on page 1408
- [show isis redistribute route](#), on page 1409
- [show isis route](#), on page 1411
- [show isis rrm](#), on page 1415
- [show isis segment-routing mapcache](#), on page 1417
- [show isis segment-routing remote-srgb](#), on page 1419
- [show isis segment-routing sids](#), on page 1421
- [show isis spf-log](#), on page 1422
- [show isis srm](#), on page 1424
- [show isis ssn](#), on page 1425
- [show isis statistics](#), on page 1426
- [show isis summary-address](#), on page 1427
- [show isis topology](#), on page 1429
- [show isis traffic](#), on page 1431
- [show itd](#), on page 1433
- [show itd session device-group](#), on page 1437
- [show itd statistics](#), on page 1438
- [show itd vrf](#), on page 1440

## show icam entries acl module inst

```
show icam entries acl module <module> inst <inst> [ history <num_intervals> ] [ sort { top <top_x> | sort-order
{ ascending | descending } | filter <f_f> [ exact ] | top <top_x> sort-order { ascending | descending } | top
<top_x> filter <f_f> [ exact ] | top <top_x> sort-order { ascending | descending } filter <f_f> [ exact ] | top
<top_x> filter <f_f> [ exact ] sort-order { ascending | descending } | sort-order { ascending | descending } top
<top_x> | sort-order { ascending | descending } filter <f_f> [ exact ] | sort-order { ascending | descending }
filter <f_f> [ exact ] top <top_x> | sort-order { ascending | descending } top <top_x> filter <f_f> [ exact ] |
filter <f_f> [ exact ] top <top_x> | filter <f_f> [ exact ] sort-order { ascending | descending } | filter <f_f> [
exact ] top <top_x> sort-order { ascending | descending } | filter <f_f> [ exact ] sort-order { ascending |
descending } top <top_x> } ] [ __readonly__ <module> <instance> [ <num_intervals> ] [ {
TABLE_ACL_entries <Feature> <Pkt_Type> <SourceIP_Mask_DestIP_Mask> <Action> <Intf_name>
<Stats> [ <Rate> ] } ] ]
```

### Syntax Description

show	Show running system information
icam	intelligent CAM
entries	TCAM Entries with result and stats
acl	ACL entries
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
sort	(Optional) Sorted display
top	(Optional) Show top x% entries (Default:100%)
<i>top_x</i>	(Optional) x% of entries to be displayed
sort-order	(Optional) Choose the order of displaying sorted entries (Default:descending)
ascending	(Optional) Sort in Ascending order of Stats
descending	(Optional) Sort in Descending order of Stats
filter	(Optional) Feature to be filtered (Default:All)
<i>f_f</i>	(Optional) Enter feature to be filtered
exact	(Optional) Exact match for feature filter
history	(Optional) Show entries history
<i>num_intervals</i>	(Optional) Number of intervals to display

<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
<i>num_intervals</i>	(Optional) Number of intervals displayed
TABLE_ACL_entries	(Optional) Table for ACL entries
<i>Feature</i>	(Optional) Feature name
<i>Pkt_Type</i>	(Optional) Packet type
<i>SourceIP_Mask_DestIP_Mask</i>	(Optional) IP addresses
<i>Action</i>	(Optional) Action
<i>Intf_name</i>	(Optional) Interface name
<i>Stats</i>	(Optional) Total stats
<i>Rate</i>	(Optional) Rate packets/sec

**Command Mode**

- /exec

# show icam health

```
show icam health [ __readonly__ { <Version> } [ { TABLE_cpu <CpuTypeName> <CpuTypeValue> } ] [
{ TABLE_mem <MemTypeName> <MemTypeValue> } ] [ { TABLE_ps <PsTypeName> <PsTypeValue>
} ] ]
```

## Syntax Description

show	Show running system information
icam	iCAM - intelligent CAM
health	Health status
__readonly__	(Optional)
<i>Version</i>	(Optional) Version of output format
TABLE_cpu	(Optional) Table CPU Usage
<i>CpuTypeName</i>	(Optional) CPU Usage Type
<i>CpuTypeValue</i>	(Optional) CPU Usage Value
TABLE_mem	(Optional) Table Memory Usage
<i>MemTypeName</i>	(Optional) Memory Usage Type
<i>MemTypeValue</i>	(Optional) Memory Usage Value
TABLE_ps	(Optional) Table Power Supply Usage
<i>PsTypeName</i>	(Optional) Power Supply Information Type
<i>PsTypeValue</i>	(Optional) Power Supply Information Value

## Command Mode

- /exec

# show icam itd

```
show icam itd [ __readonly__ { <Version> } [ { TABLE_svc <Svc> <DG> [ { TABLE_stats <OrigNode>
<AssignTo> <Mode> <PktCnt> <PktPct> } ] } ] ] ]
```

## Syntax Description

show	Show running system information
icam	iCAM - intelligent CAM
itd	Intelligent Traffic Director
<i>__readonly__</i>	(Optional)
<i>Version</i>	(Optional) Version of output format
TABLE_svc	(Optional) Table service
<i>Svc</i>	(Optional) Service
<i>DG</i>	(Optional) Device Group
TABLE_stats	(Optional) Table stats
<i>OrigNode</i>	(Optional) Original Node
<i>AssignTo</i>	(Optional) Assigned to
<i>Mode</i>	(Optional) Mode
<i>PktCnt</i>	(Optional) Packet Count
<i>PktPct</i>	(Optional) Packet Percentage

## Command Mode

- /exec

## show icam prediction entries acl module inst

```
show icam prediction entries acl module <module> inst <inst> <YYYY> <Month> <Date> <Time> [ top
<top_x> ] [ __readonly__ <module> <instance> [ { TABLE_PREDICTION_ACL_entries <Feature>
<Pkt_Type> <Value_Mask> <Action> <Intf_name> <Stats> <Prediction> } ] ]
```

### Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
entries	TCAM Entries with result and stats
acl	ACL entries
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
<i>YYYY</i>	Enter year in YYYY format
<i>Month</i>	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>Date</i>	Enter day of month in dd format
<i>Time</i>	Enter hour, minutes, seconds as HH:MM:SS
top	(Optional) Show top x% entries (Default:1%)
<i>top_x</i>	(Optional) x% of entries to be displayed
<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_entries	(Optional) Table for ACL entries prediction
<i>Feature</i>	(Optional) Feature name
<i>Pkt_Type</i>	(Optional) Packet type
<i>Value_Mask</i>	(Optional) Value mask
<i>Action</i>	(Optional) Action
<i>Intf_name</i>	(Optional) Interface name

<i>Stats</i>	(Optional) Current stats
<i>Prediction</i>	(Optional) Prediction

**Command Mode**

- /exec





infra	(Optional) Infrastrure
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp-groups	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
pim-neighbors	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
outgoing-interfaces	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
outgoing-interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
eigrp-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-arp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv6-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-isis-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-nbr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

ospf-lsa	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-area	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-passive-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency
bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor
lsa	(Optional) OSPF LSA

area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI
underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	(Optional) Overlay MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer
ir-vni	(Optional) Ingress replication L2 VNI

ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vlan-mapping-in-switch	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route

host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
__readonly__	(Optional) Read Only
<i>Info_Thres</i>	(Optional) Configured info threshold percent
<i>Warn_Thres</i>	(Optional) Configured warning threshold percent
<i>Crit_Thres</i>	(Optional) Configured critical threshold percent
TABLE_technology	(Optional) Table technology
<i>Technology</i>	(Optional) Technology name
TABLE_feature	(Optional) Table feature
<i>Feature</i>	(Optional) Feature name
<i>Verified_Scale</i>	(Optional) Verified scale
<i>Config_Scale</i>	(Optional) Configured scale
TABLE_feature_stats	(Optional) Table feature stats
<i>Used_Entries</i>	(Optional) Used entries
<i>Cur_Util</i>	(Optional) Current utilization
<i>YYYY</i>	Enter year in YYYY format
<i>Month</i>	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>Date</i>	Enter day of month in dd format
<i>Time</i>	Enter hour, minutes, seconds as HH:MM:SS

**Command Mode**

- /exec

## show icam scale

```
show icam scale [ { { l2-switching [ mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans |
total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan |
isolated-portvlan } | vlan { vlan-count } } } | { multicast-routing [ multicast-routes | igmp-groups | pim-neighbors
| outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | outgoing-interface } | igmp { group } | pim
{ neighbor } ] } | { unicast-routing [ bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes
| ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor
} | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4
| host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa
| area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6
| intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path } ] } | { vxlan [
igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | overlay-mac | vtep | ir-peer |
ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp
| vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep | mac |
host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp |
vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 |
overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } ] } } ]
[ history <num_intervals> [ sort { current-scale [ ascending | descending ] | polled-timestamp [ newest | oldest
] } ] | utilization | thresholds ] [ _readonly_ [ <Info_Thres> <Warn_Thres> <Crit_Thres> ] [ {
TABLE_technology <Technology> [ { TABLE_feature <Feature> [ <Instance> ] [ <Verified_Scale>
<Config_Scale> ] [ { TABLE_feature_stats <Used_Entries> [ <Cur_Util> ] [ <Thres_Exceeded> <Polled_TS>
] [ <Avg_Util> ] [ <Week_Util> <Week_TS> ] [ <Peak_Util> <Peak_TS> ] [ <Info_Thres_Exceed>
<Info_Thres_Exceed_TS> <Warn_Thres_Exceed> <Warn_Thres_Exceed_TS> <Crit_Thres_Exceed>
<Crit_Thres_Exceed_TS> ] } ] } ] }
```

### Syntax Description

show	Show running system information
icam	intelligent CAM
scale	Verified scale
l2-switching	(Optional) Layer 2 switching
multicast-routing	(Optional) Multicast routing
unicast-routing	(Optional) Unicast routing
vxlan	(Optional) VxLAN
mac-addresses	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
mst-instances	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
mst-vports	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
rpvst-vports	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
rpvst-vlans	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
total-vlans-x-ports	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

vlan	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
infra	(Optional) Infrastrure
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp-groups	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
pim-neighbors	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
outgoing-interfaces	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
outgoing-interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
eigrp-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-arp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv6-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-isis-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED



ospf-nbr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-lsa	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-area	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-passive-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency
bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor

lsa	(Optional) OSPF LSA
area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI
underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	(Optional) Overlay MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer

ir-vni	(Optional) Ingress replication L2 VNI
ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vlan-mapping-in-switch	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
vtep	(Optional) VTEP
mac	(Optional) MAC address

host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
history	(Optional) Show scale history
<i>num_intervals</i>	(Optional) Number of intervals in history
sort	(Optional) Sorted display
current-scale	(Optional) Sort records by current-scale value
ascending	(Optional) Sort current-scale values in ascending order
descending	(Optional) Sort current-scale values in descending order
polled-timestamp	(Optional) Sort records by polled-timestamp
newest	(Optional) Sort with newest record first
oldest	(Optional) Sort with oldest record first
utilization	(Optional) Show utilization statistics
thresholds	(Optional) Show thresholds statistics
__readonly__	(Optional) Read Only
<i>Info_Thres</i>	(Optional) Configured info threshold percent
<i>Warn_Thres</i>	(Optional) Configured warning threshold percent
<i>Crit_Thres</i>	(Optional) Configured critical threshold percent
TABLE_technology	(Optional) Table technology
<i>Technology</i>	(Optional) Technology name
TABLE_feature	(Optional) Table feature
<i>Feature</i>	(Optional) Feature name
<i>Instance</i>	(Optional) Instance name. Present if the record is for a specific instance on the system (i.e. module, port combination or specific application instance in a VDC)
<i>Verified_Scale</i>	(Optional) Verified scale

<i>Config_Scale</i>	(Optional) Configured scale
<i>TABLE_feature_stats</i>	(Optional) Table feature stats
<i>Used_Entries</i>	(Optional) Used entries
<i>Cur_Util</i>	(Optional) Current utilization
<i>Thres_Exceeded</i>	(Optional) Threshold type exceeded
<i>Polled_TS</i>	(Optional) Polled timestamp
<i>Avg_Util</i>	(Optional) Average utilization
<i>Week_Util</i>	(Optional) 1 week utilization
<i>Week_TS</i>	(Optional) 1 week peak utilization timestamp
<i>Peak_Util</i>	(Optional) Peak utilization
<i>Peak_TS</i>	(Optional) Peak utilization timestamp
<i>Info_Thres_Exceed</i>	(Optional) Number of times info threshold exceeded
<i>Info_Thres_Exceed_TS</i>	(Optional) Last info threshold exceeded timestamp
<i>Warn_Thres_Exceed</i>	(Optional) Number of times warning threshold exceeded
<i>Warn_Thres_Exceed_TS</i>	(Optional) Last warning threshold exceeded timestamp
<i>Crit_Thres_Exceed</i>	(Optional) Number of times critical threshold exceeded
<i>Crit_Thres_Exceed_TS</i>	(Optional) Last critical threshold exceeded timestamp

**Command Mode**

- /exec

# show ieth-header-decode

show ieth-header-decode <ieth>

## Syntax Description

show	Show running system information
ieth-header-decode	Show decode of ieth header
<i>ieth</i>	ieth header in hex (0xFF..) or string (FF..) form

## Command Mode

- /exec

# show inband-telemetry exporter

```
show inband-telemetry exporter [ <exportername> ] [ __readonly__ <exporter> <description> <dest> <vrf>
<vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <seq_num> ]
```

## Syntax Description

show	Show running system information
inband-telemetry	Show INT information
exporter	Show INT Exporter Configuration
<i>exportername</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>dscp</i>	(Optional)
<i>seq_num</i>	(Optional)

## Command Mode

- /exec

## show inband-telemetry flow-profile

```
show inband-telemetry flow-profile [ <flow-profilename> ] [ __readonly__ <flow-profile> <description>
<dscp> <age> <latency> ]
```

### Syntax Description

show	Show running system information
inband-telemetry	Show INT information
flow-profile	Show INT flow Profile Configuration
<i>flow-profilename</i>	(Optional) Specify an flow Profile
<i>__readonly__</i>	(Optional)
<i>flow-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>dscp</i>	(Optional)
<i>age</i>	(Optional)
<i>latency</i>	(Optional)

### Command Mode

- /exec



## show inband-telemetry monitor

```
show inband-telemetry monitor [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor> <use_count>
<description> <record> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist> ]
```

### Syntax Description

show	Show running system information
inband-telemetry	Show INT information
monitor	Show Monitor Configuration
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>record</i>	(Optional)
<i>event</i>	(Optional)
<i>exporter</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>watchlist</i>	(Optional)

### Command Mode

- /exec

# show inband-telemetry queue-profile

```
show inband-telemetry queue-profile [ <queue-profilename> | queue-profile-default ] [ __readonly__
<queue-profile> <description> <depth> <latency> ]
```

## Syntax Description

show	Show running system information
inband-telemetry	Show INT information
queue-profile	Show INT Queue Profile Configuration
<i>queue-profilename</i>	(Optional) Specify an Queue Profile
queue-profile-default	(Optional) Show INT Queue Profile Default Configuration
__readonly__	(Optional)
<i>queue-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>depth</i>	(Optional)
<i>latency</i>	(Optional)

## Command Mode

- /exec

# show inband-telemetry record

show inband-telemetry record [ { <recordname> } ] [ \_\_readonly\_\_ <record> <description> <use\_count> ]

## Syntax Description

show	Show running system information
inband-telemetry	Show INT information
record	Show Record Configuration
<i>recordname</i>	(Optional) Specify a record
__readonly__	(Optional)
<i>record</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)

## Command Mode

- /exec

# show inband-telemetry sessions

show inband-telemetry sessions [ <monitorname> ] [ \_\_readonly\_\_ <monitor> ]

## Syntax Description

show	Show running system information
inband-telemetry	Show INT information
sessions	Show Session Configuration
<i>monitorname</i>	(Optional) Specify a monitor
__readonly__	(Optional)
<i>monitor</i>	(Optional)

## Command Mode

- /exec

## show inband-telemetry watchlist

```
show inband-telemetry watchlist [ { <watchlistname> } ] [ __readonly__ <watchlist> <use_count>
<description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip>
<ace_dip_len> ]
```

### Syntax Description

show	Show running system information
inband-telemetry	Show INT information
watchlist	Show watchlist Configuration
<i>watchlistname</i>	(Optional) Specify a watchlist
<i>__readonly__</i>	(Optional)
<i>watchlist</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>num_aces</i>	(Optional)
<i>ace_seq_num</i>	(Optional)
<i>ace_action</i>	(Optional)
<i>ace_type</i>	(Optional)
<i>ace_sip</i>	(Optional)
<i>ace_sip_len</i>	(Optional)
<i>ace_dip</i>	(Optional)
<i>ace_dip_len</i>	(Optional)

### Command Mode

- /exec

# show incompatibility-all system

```
show incompatibility-all { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat_all <Str1> [
<Serv> ] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] [ <Dynamic> ] } ]
```

## Syntax Description

show	Show running system information
incompatibility-all	Show incompatible configurations for the entire system
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat_all	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

## Command Mode

- /exec

## show incompatibility system

```
show incompatibility { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat <Str1> [ <Serv>
] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] [ <Dynamic> ] } ] }
```

### Syntax Description

show	Show running system information
incompatibility	Show incompatible configurations
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

### Command Mode

- /exec

# show install

```
show install { inactive | active [ brief ] | committed } [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list
<install_smu_id>+ ] [ TABLE_package_list <package_id>+ ] [ TABLE_base_package_list <base_package_id>
+ ] } ]
```

## Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
active	Active packages
brief	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
committed	Committed packages
__readonly__	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional) install operation smu identifier
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name
TABLE_base_package_list	(Optional)
<i>base_package_id</i>	(Optional) Base package name

## Command Mode

- /exec



# show install all failed-standby

```
show install all failed-standby [ __readonly__ { [ TABLE_installFailStandby <Str1> ] } ]
```

## Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	Show install all information
failed-standby	show log from failed standby
__readonly__	(Optional)
TABLE_installFailStandby	(Optional) Install failed-standby table
<i>Str1</i>	(Optional)

## Command Mode

- /exec

## show install all failure-reason

```
show install all failure-reason [ __readonly__ { [ TABLE_installFailReason <installFailReasonStr> ] } ]
```

### Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
failure-reason	Show failure reason for the last install all
__readonly__	(Optional)
TABLE_installFailReason	(Optional) Install failure-reason table
<i>installFailReasonStr</i>	(Optional)

### Command Mode

- /exec

# show install all impact

show install all impact [ nxos <uri> ] + [ non-disruptive ]

## Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
impact	show impact of the install all command
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri
non-disruptive	(Optional) non-disruptive show install

## Command Mode

- /exec

# show install all status

show install all status

## Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
status	show status of the current or last install all

## Command Mode

- /exec

# show install all time-stats

show install all time-stats [ detail | handshake ]

## Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
time-stats	show overall time statistics of the last install all
detail	(Optional) show detailed time statistics of the last install all
handshake	(Optional) show handshake time statistics for sysmgr and lc processes of the last install all

## Command Mode

- /exec

## show install log

```
show install log { [ <id> | from <id1> ] [ detail ] [ reverse ] [ last ] } [ __readonly__ { current_time <curr_time>
[ TABLE_show_log_output <install_id> <install_log_entry> + ] } ]
```

### Syntax Description

show	Show running system information
install	Install related show commands
log	log
<i>id</i>	(Optional) Install Identifies
from	(Optional) Starting at this install identifier
<i>idl</i>	(Optional) Install Identifier
detail	(Optional) Detailed information including impacted processes
reverse	(Optional) Displays the logs in reverse order
last	(Optional) Display the logs for last install operation
__readonly__	(Optional)
current_time	(Optional) current time
<i>curr_time</i>	(Optional) current time
TABLE_show_log_output	(Optional)
<i>install_id</i>	(Optional) install operation id
<i>install_log_entry</i>	(Optional) install log entry

### Command Mode

- /exec

# show install mode

```
show install mode [ __readonly__ { <install_mode> <image_type> } ]
```

## Syntax Description

show	Show running system information
install	Install related show commands
mode	Display mode and type of booted image
<i>__readonly__</i>	(Optional)
<i>install_mode</i>	(Optional) install mode
<i>image_type</i>	(Optional) image type

## Command Mode

- /exec

# show install packages

```
show install packages [ __readonly__ { <curr_nxos_image> [ TABLE_package_list <package_name>
<version> <state> <signature> ] } ]
```

## Syntax Description

show	Show running system information
install	Install related show commands
packages	All packages
<i>__readonly__</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
TABLE_package_list	(Optional)
<i>package_name</i>	(Optional) Package name
<i>version</i>	(Optional) Package version
<i>state</i>	(Optional) package state
<i>signature</i>	(Optional) Signature

## Command Mode

- /exec



# show install patches

```
show install patches [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list <install_smu_id>
<install_smu_state> [ TABLE_module_list <install_modno> <install_mod_smu_state> ] ] } ]
```

## Syntax Description

show	Show running system information
install	Install related show commands
patches	All Patches
<i>__readonly__</i>	(Optional)
<i>TABLE_smu_list</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
<i>install_smu_id</i>	(Optional) install operation smu identifier
<i>install_smu_state</i>	(Optional) install operation smu state
<i>TABLE_module_list</i>	(Optional)
<i>install_modno</i>	(Optional) install operation module number
<i>install_mod_smu_state</i>	(Optional) install operation module state

## Command Mode

- /exec

## show interface

```
show interface <ifloop> [ __readonly__ TABLE_interface <interface> [ <state> ] [ <admin_state> ] [
<share_state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <eth_bundle> ] [ <mgmt_sfp> ] [ <mgmt_type>
] [ <eth_eee_state> ] [ <eth_dce_mode> ] [ <vpc_status> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [
<eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix>
] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <eth_dly> ] [ <eth_reliability> ] [
<eth_txload> ] [ <eth_rxload> ] [ <eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [
<eth_mode> ] [ <eth_ratemode> ] [ <eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl>
] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_sw_t_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [
<eth_clk_mode> ] [ <eth_arp_type> ] [ <eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [
<eth_out_hang> ] [ <eth_clear_counters> ] [ <eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [
<eth_inq_drops> ] [ <eth_inq_flush> ] [ <eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [
<eth_outq_max> ] [ <eth_reset_cntr> ] [ <loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [
<loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo>
] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns> ] [ <loop_out_errors> ] [
<loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin_state</i>	(Optional) Interface admin state
<i>share_state</i>	(Optional) Interface ownership
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>mgmt_sfp</i>	(Optional) mgmt sfp
<i>mgmt_type</i>	(Optional) mgmt type
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_dce_mode</i>	(Optional) DCE mode description

<i>vpc_status</i>	(Optional) VPC status
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP Prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>encapsulation</i>	(Optional) Encapsulation
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx

<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queueing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets

<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

**Command Mode**

- /exec

## show interface

```
show interface <ifid_brief1> [ brief ] [ __readonly__ ] [ { TABLE_interface_vfc [ <interface_vfc> ] [
<vsan_brief> ] [ <oper_port_state> ] [ <port_state> ] [ <bound_interface> ] [ <port_desc> ] [ <port_des> ] [
<mgmt_hw_desc1> ] [ <mgmt_hw_addr1> ] [ <port_name> ] [ <hardware> ] [ <sfp> ] [ <port_wnn> ] [
<peer_port_wnn> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <snmp_trap> ] [ <status> ] [ <state_rsn1>
] [ <fcot_info> ] [ <bind_info> ] [ <bind_mac> ] [ <bind_type> ] [ <port_mode> ] [ <fcid> ] [ <cfg_port_vsan>
] [ <vsan> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <admin_speed> ] [ <port_channel> ] [ <ip_addr1> ] [
<oper_txbbcredit> ] [ <oper_rxbbcredit> ] [ <port_bb_scn> ] [ <admin_rxbufsize> ] [ <admin_port_encap>
] [ <admin_beacon_mode> ] [ <admin_fec_state> ] [ <oper_fec_state> ] [ <bundle_if_index> ] [
<trkd_if_index> ] [ <trk_cfg_vsans> ] [ <trkd_port_state> ] [ <num_ports> ] [ TABLE_trk_intf [ <trk_intf>
] ] [ <info_type_num> ] [ <info_model_num> ] [ <info_manufacturer> ] [ <info_port_id> ] [ <active_vsan>
] [ <trunk_vsan_up> ] [ <trunk_vsan_isolated> ] [ <trunk_vsan_initializing> ] [ <in_bps> ] [ <in_byps> ] [
<in_fps> ] [ <out_bps> ] [ <out_byps> ] [ <out_fps> ] [ <total_in_frames> ] [ <total_in_bytes> ] [
<total_in_discards> ] [ <total_in_errors> ] [ <invalid_crc> ] [ <unknown_class_frames> ] [ <frames_too_long>
] [ <frames_too_short> ] [ <total_out_frames> ] [ <total_out_bytes> ] [ <total_out_discards> ] [
<total_out_errors> ] [ <in_ols> ] [ <in_lrr> ] [ <in_nos> ] [ <in_loop_inits> ] [ <out_ols> ] [ <out_lrr> ] [
<out_nos> ] [ <out_loop_inits> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [
<tx_b2b_low_pri_cre> ] [ <fcoe_in_pkts> ] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ]
] [ TABLE_members [ <port_channel_member> ] ] [ <interface_last_changed> ] [ <time_last_cleared> ] } ] [
{ TABLE_interface_brief_vfc [ <interface_vfc> ] [ <vsan_brief> ] [ <admin_mode> ] [ <admin_trunk_mode>
] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <port_rate_mode> ] [
<oper_speed> ] [ <port_channel> ] [ <ip_addr> ] } ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_brief1</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
__readonly__	(Optional) Read Only
<i>interface_vfc</i>	(Optional) Interface index
TABLE_interface_vfc	(Optional) show interface
<i>vsan_brief</i>	(Optional) vsan for brief
<i>oper_port_state</i>	(Optional) oper port state
<i>port_state</i>	(Optional) port state
<i>bound_interface</i>	(Optional) bound interface
<i>port_desc</i>	(Optional) port description
<i>port_des</i>	(Optional) port description
<i>mgmt_hw_desc1</i>	(Optional) HW description

<i>mgmt_hw_addr1</i>	(Optional) HW address
<i>port_name</i>	(Optional) port description
<i>hardware</i>	(Optional) Hardware is
<i>sfp</i>	(Optional) sfp
<i>port_wwn</i>	(Optional) port wwn
<i>peer_port_wwn</i>	(Optional) peer port wwn
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>snmp_trap</i>	(Optional) snmp trap
<i>status</i>	(Optional) Status
<i>state_rsn1</i>	(Optional) state reason
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_mac</i>	(Optional) bind mac
<i>bind_type</i>	(Optional) bind type
<i>port_mode</i>	(Optional) port mode
<i>fcid</i>	(Optional) fcid
<i>cfg_port_vsan</i>	(Optional) config port vsan
<i>vsan</i>	(Optional) vsan for brief
<i>port_rate_mode</i>	(Optional) operation port rate mode
<i>oper_speed</i>	(Optional) speed
<i>admin_speed</i>	(Optional) admin speed
<i>port_channel</i>	(Optional) port channel
<i>ip_addr1</i>	(Optional) Ip address
<i>oper_txbbcredit</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit</i>	(Optional) oper rx bbcredit
<i>port_bb_scn</i>	(Optional) port bb scn
<i>admin_rxbufsize</i>	(Optional) admin rx bufsize
<i>admin_port_encap</i>	(Optional) admin port encap

<i>admin_beacon_mode</i>	(Optional) admin beacon mode
<i>admin_fec_state</i>	(Optional) admin fec state
<i>oper_fec_state</i>	(Optional) oper fec state
<i>bundle_if_index</i>	(Optional) bundle if index
<i>trkd_if_index</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans</i>	(Optional) Trunk vsans
<i>trkd_port_state</i>	(Optional) trunk port state
<i>num_ports</i>	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
<i>trk_intf</i>	(Optional) track interface
<i>info_type_num</i>	(Optional) info type num
<i>info_model_num</i>	(Optional) info model num
<i>info_manufacturer</i>	(Optional) info manufacturer
<i>info_port_id</i>	(Optional) info port id
<i>active_vsan</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing</i>	(Optional) trunk vsan initializing
<i>in_bps</i>	(Optional) input bits/sec
<i>in_byps</i>	(Optional) input bytes/sec
<i>in_fps</i>	(Optional) input frames/sec
<i>out_bps</i>	(Optional) output bits/sec
<i>out_byps</i>	(Optional) output bytes/sec
<i>out_fps</i>	(Optional) output frames/sec
<i>total_in_frames</i>	(Optional) total in frames
<i>total_in_bytes</i>	(Optional) total in bytes
<i>total_in_discards</i>	(Optional) total in discards
<i>total_in_errors</i>	(Optional) total in errors
<i>invalid_crc</i>	(Optional) invalid crc



<i>unknown_class_frames</i>	(Optional) unknown class frames
<i>frames_too_long</i>	(Optional) frames too long
<i>frames_too_short</i>	(Optional) frames too short
<i>total_out_frames</i>	(Optional) total out frames
<i>total_out_bytes</i>	(Optional) total out bytes
<i>total_out_discards</i>	(Optional) total out discards
<i>total_out_errors</i>	(Optional) total out errors
<i>in_ols</i>	(Optional) input OLS
<i>in_lrr</i>	(Optional) input LRR
<i>in_nos</i>	(Optional) input NOS
<i>in_loop_inits</i>	(Optional) input loop inits
<i>out_ols</i>	(Optional) output OLS
<i>out_lrr</i>	(Optional) ouput LRR
<i>out_nos</i>	(Optional) output NOS
<i>out_loop_inits</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit</i>	(Optional) rx b2b credit
<i>tx_b2b_credit</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
<i>port_channel_member</i>	(Optional) port-channel member interface
<i>interface_last_changed</i>	(Optional) interface last changed
<i>time_last_cleared</i>	(Optional) counters last cleared
TABLE_interface_brief_vfc	(Optional) show interface brief table
<i>interface_vfc</i>	(Optional) Interface index

<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac address
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr</i>	(Optional) IP address

**Command Mode**

- /exec



<i>mgmt_hw_desc1</i>	(Optional) HW description
<i>mgmt_hw_addr1</i>	(Optional) HW address
<i>port_name</i>	(Optional) port description
<i>hardware</i>	(Optional) Hardware is
<i>sfp</i>	(Optional) sfp
<i>port_wwn</i>	(Optional) port wwn
<i>peer_port_wwn</i>	(Optional) peer port wwn
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>snmp_trap</i>	(Optional) snmp trap
<i>status</i>	(Optional) Status
<i>state_rsn1</i>	(Optional) state reason
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_mac</i>	(Optional) bind mac
<i>bind_type</i>	(Optional) bind type
<i>port_mode</i>	(Optional) port mode
<i>fcid</i>	(Optional) fcid
<i>cfg_port_vsan</i>	(Optional) config port vsan
<i>vsan</i>	(Optional) vsan for brief
<i>port_rate_mode</i>	(Optional) operation port rate mode
<i>oper_speed</i>	(Optional) speed
<i>admin_speed</i>	(Optional) admin speed
<i>port_channel</i>	(Optional) port channel
<i>ip_addr1</i>	(Optional) Ip address
<i>oper_txbbcredit</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit</i>	(Optional) oper rx bbcredit
<i>port_bb_scn</i>	(Optional) port bb scn
<i>admin_rxbufsize</i>	(Optional) admin rx bufsize

<i>admin_port_encap</i>	(Optional) admin port encap
<i>admin_beacon_mode</i>	(Optional) admin beacon mode
<i>admin_fec_state</i>	(Optional) admin fec state
<i>oper_fec_state</i>	(Optional) oper fec state
<i>bundle_if_index</i>	(Optional) bundle if index
<i>trkd_if_index</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans</i>	(Optional) Trunk vsans
<i>trkd_port_state</i>	(Optional) trunk port state
<i>num_ports</i>	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
<i>trk_intf</i>	(Optional) track interface
<i>info_type_num</i>	(Optional) info type num
<i>info_model_num</i>	(Optional) info model num
<i>info_manufacturer</i>	(Optional) info manufacturer
<i>info_port_id</i>	(Optional) info port id
<i>active_vsan</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing</i>	(Optional) trunk vsan initializing
<i>in_bps</i>	(Optional) input bits/sec
<i>in_byps</i>	(Optional) input bytes/sec
<i>in_fps</i>	(Optional) input frames/sec
<i>out_bps</i>	(Optional) output bits/sec
<i>out_byps</i>	(Optional) output bytes/sec
<i>out_fps</i>	(Optional) output frames/sec
<i>total_in_frames</i>	(Optional) total in frames
<i>total_in_bytes</i>	(Optional) total in bytes
<i>total_in_discards</i>	(Optional) total in discards
<i>total_in_errors</i>	(Optional) total in errors

<i>invalid_crc</i>	(Optional) invalid crc
<i>unknown_class_frames</i>	(Optional) unknown class frames
<i>frames_too_long</i>	(Optional) frames too long
<i>frames_too_short</i>	(Optional) frames too short
<i>total_out_frames</i>	(Optional) total out frames
<i>total_out_bytes</i>	(Optional) total out bytes
<i>total_out_discards</i>	(Optional) total out discards
<i>total_out_errors</i>	(Optional) total out errors
<i>in_ols</i>	(Optional) input OLS
<i>in_lrr</i>	(Optional) input LRR
<i>in_nos</i>	(Optional) input NOS
<i>in_loop_inits</i>	(Optional) input loop inits
<i>out_ols</i>	(Optional) output OLS
<i>out_lrr</i>	(Optional) output LRR
<i>out_nos</i>	(Optional) output NOS
<i>out_loop_inits</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit</i>	(Optional) rx b2b credit
<i>tx_b2b_credit</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
<i>port_channel_member</i>	(Optional) port-channel member interface
<i>interface_last_changed</i>	(Optional) interface last changed
<i>time_last_cleared</i>	(Optional) counters last cleared
TABLE_interface_brief_fc	(Optional) show interface brief table

<i>interface_fc</i>	(Optional) Interface index
<i>ip_addr</i>	(Optional) IP address
<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac address
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
TABLE_interface_brief_san_pc	(Optional) show interface brief for san-po
<i>interface_san</i>	(Optional) san_po interface
<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>ip_addr</i>	(Optional) IP address

**Command Mode**

- /exec

## show interface

```

show interface <ifid> [ quick ] [ __readonly__ TABLE_interface <interface> [ <desc> ] [ [ <svi_if_index> ]
[ <svi_admin_state> ] [ <oper_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [
<svi_desc> ] [ <svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <vlan_id> ]
[ <type> ] ] [ [ <svi_tx_load> ] [ <svi_rx_load> ] ] [ [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec>
] [ <svi_arp_type> ] [ <svi_arp_timeout> ] ] [ [ <svi_time_last_cleared> ] ] [ { [ TABLE_sec_vlan ] [
<sec_vlan> ] [ <sec_vlan_type> ] } ] [ [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts>
] [ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_overrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast>
] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll>
] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127>
] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [
<eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [
<eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [
<eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [
<eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ] [
<eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ] [ [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out>
] [ <svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [
<svi_ipv4_ucast_pkts_out> ] [ <svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [
<svi_ipv4_mcast_bytes_in> ] [ <svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] ] ]

```



```
<svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][ <svi_ipv6_ucast_pkts_out> ][
<svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][ <svi_ipv6_mcast_bytes_in> ][
<svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][ <svi_average_input_bits> ][
<svi_average_input_packets> ][ <svi_average_output_bits> ][ <svi_average_output_packets> ][
<svi_rate_in_mins> ]][ [ <svi_reliability> ]][ <switchport> ]]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
<u>__readonly__</u>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>desc</i>	(Optional) Interface description
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load

<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec

<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes

<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC

<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overnrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures

<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes

<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>svi_reliability</i>	(Optional) Reliability
<i>switchport</i>	(Optional) Switchport enabled

**Command Mode**

- /exec

## show interface

```
show interface <ifmgmt> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <eth_bundle> ] [
<eth_dce_mode> ] [ <vpc_status> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [
<eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <encapsulation> ] [ <medium> ] [
<eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_mode> ] [ <eth_ratemode> ] [
<eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [
<eth_sw_t_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_clk_mode> ] [ <eth_arp_type> ] [
<eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [ <eth_out_hang> ] [ <eth_clear_counters> ] [
<eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [ <eth_inq_drops> ] [ <eth_inq_flush> ] [
<eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [ <eth_outq_max> ] [ <eth_reset_cntr> ] [
<mgmt_hw_desc> ] [ <mgmt_hw_addr> ] [ <mgmt_ip_addr> ] [ <mgmt_ip_mask> ] [ <mgmt_mtu> ] [
<mgmt_speed> ] [ <mgmt_duplex> ] [ <vdc_lvl_in_avg_bits> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_out_avg_bits> ] [ <vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_in_pkts> ] [ <vdc_lvl_in_ucast> ] [
<vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [
<vdc_lvl_out_bytes> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt</i>	Enter interface type and number in module/slot format
<u>__readonly__</u>	(Optional) Read Only
<u>TABLE_interface</u>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) Interface admin state
<i>share_state</i>	(Optional) Interface ownership
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_dce_mode</i>	(Optional) DCE mode description
<i>vpc_status</i>	(Optional) VPC status



<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>encapsulation</i>	(Optional) Encapsulation
<i>medium</i>	(Optional) medium type
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor

<i>eth_etherType</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queuing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>mgmt_hw_desc</i>	(Optional) HW description
<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits

<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second

**Command Mode**

- /exec

## show interface

```

show interface [ controller | quick ] [ _readonly_ TABLE interface <interface> [ <state> ] [ <state_rsn_desc>
] [ <state_rsn> ] [ <vsan_brief> ] [ <oper_port_state> ] [ <port_state> ] [ <bound_interface> ] [ <port_desc>
] [ <port_des> ] [ <mgmt_hw_desc1> ] [ <mgmt_hw_addr1> ] [ <port_name> ] [ <hardware> ] [ <sfp> ] [
<port_wnn> ] [ <peer_port_wnn> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <snmp_trap> ] [ <status>
] [ <state_rsn1> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_mac> ] [ <bind_type> ] [ <port_mode> ] [ <fcid>
] [ <cfg_port_vsan> ] [ <vsan> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <admin_speed> ] [ <port_channel>
] [ <ip_addr1> ] [ <oper_txbcredit> ] [ <oper_rxbcredit> ] [ <port_bb_scn> ] [ <admin_rxbufsize> ] [
<admin_port_encap> ] [ <admin_beacon_mode> ] [ <admin_fec_state> ] [ <oper_fec_state> ] [
<bundle_if_index> ] [ <trkd_if_index> ] [ <trk_cfg_vsans> ] [ <trkd_port_state> ] [ <num_ports> ] [
TABLE_trk_intf [ <trk_intf> ] ] [ <info_type_num> ] [ <info_model_num> ] [ <info_manufacturer> ] [
<info_port_id> ] [ <active_vsan> ] [ <trunk_vsan_up> ] [ <trunk_vsan_isolated> ] [ <trunk_vsan_initializing>
] [ <in_bps> ] [ <in_byps> ] [ <in_fps> ] [ <out_bps> ] [ <out_byps> ] [ <out_fps> ] [ <total_in_frames> ] [
<total_in_bytes> ] [ <total_in_discards> ] [ <total_in_errors> ] [ <invalid_crc> ] [ <unknown_class_frames>
] [ <frames_too_long> ] [ <frames_too_short> ] [ <total_out_frames> ] [ <total_out_bytes> ] [
<total_out_discards> ] [ <total_out_errors> ] [ <in_ols> ] [ <in_lrr> ] [ <in_nos> ] [ <in_loop_inits> ] [
<out_ols> ] [ <out_lrr> ] [ <out_nos> ] [ <out_loop_inits> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [
<tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <fcoe_in_pkts> ] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [
<fcoe_out_octets> ] [ TABLE_members [ <port_channel_member> ] ] [ <interface_last_changed> ] [
<time_last_cleared> ] [ <interface_quick> ] [ <vsan_brief_quick> ] [ <oper_port_state_quick> ] [
<port_state_quick> ] [ <bound_interface_quick> ] [ <port_desc_quick> ] [ <port_des_quick> ] [
<mgmt_hw_desc1_quick> ] [ <mgmt_hw_addr1_quick> ] [ <port_name_quick> ] [ <hardware_quick> ] [
<sfp_quick> ] [ <port_wnn_quick> ] [ <peer_port_wnn_quick> ] [ <admin_mode_quick> ] [
<admin_trunk_mode_quick> ] [ <snmp_trap_quick> ] [ <status_quick> ] [ <state_rsn1_quick> ] [
<fcot_info_quick> ] [ <bind_info_quick> ] [ <bind_mac_quick> ] [ <bind_type_quick> ] [ <port_mode_quick>
] [ <fcid_quick> ] [ <cfg_port_vsan_quick> ] [ <vsan_quick> ] [ <port_rate_mode_quick> ] [
<oper_speed_quick> ] [ <admin_speed_quick> ] [ <port_channel_quick> ] [ <ip_addr1_quick> ] [
<oper_txbcredit_quick> ] [ <oper_rxbcredit_quick> ] [ <port_bb_scn_quick> ] [ <admin_rxbufsize_quick>
] [ <admin_port_encap_quick> ] [ <admin_beacon_mode_quick> ] [ <admin_fec_state_quick> ] [
<oper_fec_state_quick> ] [ <bundle_if_index_quick> ] [ <trkd_if_index_quick> ] [ <trk_cfg_vsans_quick>
] [ <trkd_port_state_quick> ] [ <num_ports_quick> ] [ TABLE_trk_intf_quick [ <trk_intf_quick> ] ] [
<info_type_num_quick> ] [ <info_model_num_quick> ] [ <info_manufacturer_quick> ] [ <info_port_id_quick>
] [ <active_vsan_quick> ] [ <trunk_vsan_up_quick> ] [ <trunk_vsan_isolated_quick> ] [
<trunk_vsan_initializing_quick> ] [ <in_bps_quick> ] [ <in_byps_quick> ] [ <in_fps_quick> ] [
<out_bps_quick> ] [ <out_byps_quick> ] [ <out_fps_quick> ] [ <total_in_frames_quick> ] [
<total_in_bytes_quick> ] [ <total_in_discards_quick> ] [ <total_in_errors_quick> ] [ <invalid_crc_quick> ]
] [ <unknown_class_frames_quick> ] [ <frames_too_long_quick> ] [ <frames_too_short_quick> ] [
<total_out_frames_quick> ] [ <total_out_bytes_quick> ] [ <total_out_discards_quick> ] [
<total_out_errors_quick> ] [ <in_ols_quick> ] [ <in_lrr_quick> ] [ <in_nos_quick> ] [ <in_loop_inits_quick>
] [ <out_ols_quick> ] [ <out_lrr_quick> ] [ <out_nos_quick> ] [ <out_loop_inits_quick> ] [
<rx_b2b_perf_buff_quick> ] [ <rx_b2b_credit_quick> ] [ <tx_b2b_credit_quick> ] [
<tx_b2b_low_pri_cre_quick> ] [ <fcoe_in_pkts_quick> ] [ <fcoe_in_octets_quick> ] [ <fcoe_out_pkts_quick>
] [ <fcoe_out_octets_quick> ] [ TABLE_members_quick [ <port_channel_member_quick> ] ] [
<interface_last_changed_quick> ] [ <time_last_cleared_quick> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [
<admin_state> ] [ <share_state> ] [ <parent_interface> ] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc>
] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ]
] [ <eth_mtu> ] + [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [
<eth_encap_vlan> ] [ <encapsulation> ] [ <medium> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [
<eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix>

```

```

]] [<eth_ratemode>]] [<eth_sw_t_monitor>]] [<eth_ether_type>]] [<eth_eee_state>]] [<eth_admin_fec_state>]]
]] [<eth_oper_fec_state>]] [<eth_members>]] [<eth_link_flapped>]] [<eth_clear_counters>]] [<eth_reset_cntr>]]
]] [<eth_load_interval1_rx>]] [<eth_inrate1_bits>]] [<eth_inrate1_pkts>]] [<eth_load_interval1_tx>]] [<eth_outrate1_bits>]]
]] [<eth_outrate1_pkts>]] [<eth_inrate1_summary_bits>]] [<eth_inrate1_summary_pkts>]] [<eth_outrate1_summary_bits>]]
]] [<eth_outrate1_summary_pkts>]] [<eth_load_interval2_rx>]] [<eth_inrate2_bits>]] [<eth_inrate2_pkts>]] [<eth_load_interval2_tx>]]
]] [<eth_outrate2_bits>]] [<eth_outrate2_pkts>]] [<eth_inrate2_summary_bits>]] [<eth_inrate2_summary_pkts>]] [<eth_outrate2_summary_bits>]]
]] [<eth_outrate2_summary_pkts>]] [<eth_load_interval3_rx>]] [<eth_inrate3_bits>]] [<eth_inrate3_pkts>]] [<eth_load_interval3_tx>]]
]] [<eth_outrate3_bits>]] [<eth_outrate3_pkts>]] [<eth_inrate3_summary_bits>]] [<eth_inrate3_summary_pkts>]] [<eth_outrate3_summary_bits>]]
]] [<eth_outrate3_summary_pkts>]] [<eth_l2_ucastpkts>]] [<eth_l2_ucastbytes>]] [<eth_l2_mcastpkts>]] [<eth_l2_mcastbytes>]]
]] [<eth_l2_bcastpkts>]] [<eth_l2_bcastbytes>]] [<eth_l3in_routed_pkts>]] [<eth_l3in_routed_bytes>]] [<eth_l3out_routed_pkts>]]
]] [<eth_l3out_routed_bytes>]] [<eth_l3in_ucastpkts>]] [<eth_l3in_ucastbytes>]] [<eth_l3in_mcastpkts>]] [<eth_l3in_mcastbytes>]]
]] [<eth_l3in_bcastpkts>]] [<eth_l3in_bcastbytes>]] [<eth_l3out_ucastpkts>]] [<eth_l3out_ucastbytes>]] [<eth_l3out_mcastpkts>]]
]] [<eth_l3out_mcastbytes>]] [<eth_l3out_bcastpkts>]] [<eth_l3out_bcastbytes>]] [<eth_l3avg1_inbytes>]] [<eth_l3avg1_inpkts>]]
]] [<eth_l3avg1_outbytes>]] [<eth_l3avg1_outpkts>]] [<eth_inucast>]] [<eth_inmcast>]] [<eth_inbcast>]] [<eth_inpkts>]] [<eth_inbytes>]]
]] [<eth_jumbo_inpkts>]] [<eth_storm_supp>]] [<eth_runts>]] [<eth_giants>]] [<eth_crc>]] [<eth_nobuf>]] [<eth_inerr>]] [<eth_frame>]]
]] [<eth_overrun>]] [<eth_underrun>]] [<eth_ignored>]] [<eth_watchdog>]] [<eth_bad_eth>]] [<eth_bad_proto>]] [<eth_in_ifdown_drops>]]
]] [<eth_dribble>]] [<eth_indiscard>]] [<eth_inpause>]] [<eth_outucast>]] [<eth_outmcast>]] [<eth_outbcast>]] [<eth_outpkts>]]
]] [<eth_outbytes>]] [<eth_jumbo_outpkts>]] [<eth_outerr>]] [<eth_coll>]] [<eth_deferred>]] [<eth_latecoll>]] [<eth_lostcarrier>]]
]] [<eth_nocarrier>]] [<eth_babbles>]] [<eth_outdiscard>]] [<eth_outpause>]] [<mgmt_hw_desc>]] [<mgmt_hw_addr>]]
]] [<mgmt_ip_addr>]] [<mgmt_ip_mask>]] [<mgmt_mtu>]] [<mgmt_speed>]] [<mgmt_duplex>]] [<vdc_lvl_in_avg_bits>]]
]] [<vdc_lvl_in_avg_pkts>]] [<vdc_lvl_out_avg_bits>]] [<vdc_lvl_out_avg_pkts>]] [<vdc_lvl_in_pkts>]] [<vdc_lvl_in_ucast>]]
]] [<vdc_lvl_in_mcast>]] [<vdc_lvl_in_bcast>]] [<vdc_lvl_in_bytes>]] [<vdc_lvl_in_bps>]] [<vdc_lvl_in_pps>]] [<vdc_lvl_out_pkts>]]
]] [<vdc_lvl_out_ucast>]] [<vdc_lvl_out_mcast>]] [<vdc_lvl_out_bcast>]] [<vdc_lvl_out_bytes>]] [<vdc_lvl_out_bps>]]
]] [<vdc_lvl_out_pps>]] [<mgmt_in_pkts>]] [<mgmt_in_bytes>]] [<mgmt_in_mcast>]] [<mgmt_in_compressed>]]
]] [<mgmt_in_errors>]] [<mgmt_in_frame>]] [<mgmt_in_overrun>]] [<mgmt_in_fifo>]] [<mgmt_out_pkts>]]
]] [<mgmt_out_bytes>]] [<mgmt_out_underruns>]] [<mgmt_out_errors>]] [<mgmt_out_collisions>]]
]] [<mgmt_out_fifo>]] [<mgmt_out_carrier>]] [<mgmt_align_err>]] [<mgmt_fcs_err>]] [<mgmt_xmit_err>]]
]] [<mgmt_rcv_err>]] [<mgmt_undersize>]] [<mgmt_outdisc>]] [<mgmt_single_col>]] [<mgmt_multi_col>]]
]] [<mgmt_late_col>]] [<mgmt_excess_col>]] [<mgmt_carri_sen>]] [<mgmt_runts>]] [<mgmt_giants>]]
]] [<mgmt_ssetest_err>]] [<mgmt_deferred_tx>]] [<mgmt_inmactx_err>]] [<mgmt_inmacrx_err>]]
]] [<mgmt_symbol_err>]] [<loop_in_pkts>]] [<loop_in_bytes>]] [<loop_in_mcast>]]
]] [<loop_in_compressed>]] [<loop_in_errors>]] [<loop_in_frame>]] [<loop_in_overrun>]]
]] [<loop_in_fifo>]] [<loop_out_pkts>]] [<loop_out_bytes>]] [<loop_out_underruns>]]
]] [<loop_out_errors>]] [<loop_out_collisions>]] [<loop_out_fifo>]] [<loop_out_carriers>]]
<admin-state>
{ <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries>
{ <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name>
<tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
<tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> [ <svi_if_index> ]
]] [<svi_admin_state>]] [<oper_state>]] [<svi_rsn_desc>]] [<svi_line_proto>]] [<svi_hw>]] [<svi_mac>]]
]] [<svi_desc>]] [<svi_ip_addr>]] [<svi_ip_mask>]] [<svi_mtu>]] [<svi_bw>]] [<svi_delay>]] [<vlan_id>]]
]] [<type>]] [<svi_tx_load>]] [<svi_rx_load>]] [<svi_carrier_delay_sec>]] [<svi_carrier_delay_msec>]]
]] [<svi_arp_type>]] [<svi_arp_timeout>]] [<svi_time_last_cleared>]] { [ TABLE_sec_vlan ] [<sec_vlan>]]
]] [<sec_vlan_type>]] } ] [<svi_routed_pkts_in>]] [<svi_routed_bytes_in>]] [<svi_routed_pkts_out>]]
]] [<svi_routed_bytes_out>]] [<svi_ucast_pkts_in>]] [<svi_ucast_bytes_in>]] [<svi_mcast_pkts_in>]]

```

```

<svi_mcast_bytes_in> ][ <svi_ucast_pkts_out> ][ <svi_ucast_bytes_out> ][ <svi_mcast_pkts_out> ][
<svi_mcast_bytes_out> ][ <svi_ipv4_ucast_pkts_in> ][ <svi_ipv4_ucast_bytes_in> ][
<svi_ipv4_ucast_pkts_out> ][ <svi_ipv4_ucast_bytes_out> ][ <svi_ipv4_mcast_pkts_in> ][
<svi_ipv4_mcast_bytes_in> ][ <svi_ipv4_mcast_pkts_out> ][ <svi_ipv4_mcast_bytes_out> ][
<svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][ <svi_ipv6_ucast_pkts_out> ][
<svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][ <svi_ipv6_mcast_bytes_in> ][
<svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][ <svi_average_input_bits> ][
<svi_average_input_packets> ][ <svi_average_output_bits> ][ <svi_average_output_packets> ][
<svi_rate_in_mins> ][ <svi_reliability> ][ <overlay_addr> ][ <overlay_addr_mask> ][ <overlay_mtu> ][
<overlay_bandwidth> ][ <overlay_encap_str> ][ <overlay_vrf> ][ <overlay_src_addr> ][ <overlay_dst_addr>
][ <overlay_last_link_flap> ][ <overlay_clear_counters> ][ <overlay_load_interval> ][
<overlay_rx_ucastpkts> ][ <overlay_rx_ucastbytes> ][ <overlay_rx_mcastpkts> ][ <overlay_rx_mcastbytes>
][ <overlay_rx_pkts> ][ <overlay_rx_bytes> ][ <overlay_rx_bcastpkts> ][ <overlay_rx_bcastbytes> ][
<overlay_rx_bitrate> ][ <overlay_rx_pktrate> ][ <overlay_tx_ucastpkts> ][ <overlay_tx_ucastbytes> ][
<overlay_tx_mcastpkts> ][ <overlay_tx_mcastbytes> ][ <overlay_tx_bcastpkts> ][ <overlay_tx_bcastbytes>
][ <overlay_tx_pkts> ][ <overlay_tx_bytes> ][ <overlay_tx_bitrate> ][ <overlay_tx_pktrate> ] <switchport>
]

```

### Syntax Description

show	Show running system information
interface	Show interface status and information
controller	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>vsan_brief</i>	(Optional) vsan for brief
<i>oper_port_state</i>	(Optional) oper port state
<i>port_state</i>	(Optional) port state
<i>bound_interface</i>	(Optional) bound interface
<i>port_desc</i>	(Optional) port description
<i>port_des</i>	(Optional) port description
<i>mgmt_hw_desc1</i>	(Optional) HW description
<i>mgmt_hw_addr1</i>	(Optional) HW address

<i>port_name</i>	(Optional) port description
<i>hardware</i>	(Optional) Hardware is
<i>sfp</i>	(Optional) sfp
<i>port_wwn</i>	(Optional) port wwn
<i>peer_port_wwn</i>	(Optional) peer port wwn
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>snmp_trap</i>	(Optional) snmp trap
<i>status</i>	(Optional) Status
<i>state_rsnl</i>	(Optional) state reason
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_mac</i>	(Optional) bind mac
<i>bind_type</i>	(Optional) bind type
<i>port_mode</i>	(Optional) port mode
<i>fcid</i>	(Optional) fcid
<i>cfg_port_vsan</i>	(Optional) config port vsan
<i>vsan</i>	(Optional) vsan for brief
<i>port_rate_mode</i>	(Optional) operation port rate mode
<i>oper_speed</i>	(Optional) speed
<i>admin_speed</i>	(Optional) admin speed
<i>port_channel</i>	(Optional) port channel
<i>ip_addr1</i>	(Optional) Ip address
<i>oper_txbbcredit</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit</i>	(Optional) oper rx bbcredit
<i>port_bb_scn</i>	(Optional) port bb scn
<i>admin_rxbufsize</i>	(Optional) admin rx bufsize
<i>admin_port_encap</i>	(Optional) admin port encap
<i>admin_beacon_mode</i>	(Optional) admin beacon mode

<i>admin_fec_state</i>	(Optional) admin fec state
<i>oper_fec_state</i>	(Optional) oper fec state
<i>bundle_if_index</i>	(Optional) bundle if index
<i>trkd_if_index</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans</i>	(Optional) Trunk vsans
<i>trkd_port_state</i>	(Optional) trunk port state
<i>num_ports</i>	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
<i>trk_intf</i>	(Optional) track interface
<i>info_type_num</i>	(Optional) info type num
<i>info_model_num</i>	(Optional) info model num
<i>info_manufacturer</i>	(Optional) info manufacturer
<i>info_port_id</i>	(Optional) info port id
<i>active_vsan</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing</i>	(Optional) trunk vsan initializing
<i>in_bps</i>	(Optional) input bits/sec
<i>in_byps</i>	(Optional) input bytes/sec
<i>in_fps</i>	(Optional) input frames/sec
<i>out_bps</i>	(Optional) output bits/sec
<i>out_byps</i>	(Optional) output bytes/sec
<i>out_fps</i>	(Optional) output frames/sec
<i>total_in_frames</i>	(Optional) total in frames
<i>total_in_bytes</i>	(Optional) total in bytes
<i>total_in_discards</i>	(Optional) total in discards
<i>total_in_errors</i>	(Optional) total in errors
<i>invalid_crc</i>	(Optional) invalid crc
<i>unknown_class_frames</i>	(Optional) unknown class frames



<i>frames_too_long</i>	(Optional) frames too long
<i>frames_too_short</i>	(Optional) frames too short
<i>total_out_frames</i>	(Optional) total out frames
<i>total_out_bytes</i>	(Optional) total out bytes
<i>total_out_discards</i>	(Optional) total out discards
<i>total_out_errors</i>	(Optional) total out errors
<i>in_ols</i>	(Optional) input OLS
<i>in_lrr</i>	(Optional) input LRR
<i>in_nos</i>	(Optional) input NOS
<i>in_loop_inits</i>	(Optional) input loop inits
<i>out_ols</i>	(Optional) output OLS
<i>out_lrr</i>	(Optional) ouput LRR
<i>out_nos</i>	(Optional) output NOS
<i>out_loop_inits</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit</i>	(Optional) rx b2b credit
<i>tx_b2b_credit</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
<i>port_channel_member</i>	(Optional) port-channel member interface
<i>interface_last_changed</i>	(Optional) interface last changed
<i>time_last_cleared</i>	(Optional) counters last cleared
<i>interface_quick</i>	(Optional) Interface index
<i>vsan_brief_quick</i>	(Optional) vsan for brief
<i>oper_port_state_quick</i>	(Optional) oper port state

<i>port_state_quick</i>	(Optional) port state
<i>bound_interface_quick</i>	(Optional) bound interface
<i>port_desc_quick</i>	(Optional) port description
<i>port_des_quick</i>	(Optional) port description
<i>mgmt_hw_desc1_quick</i>	(Optional) HW description
<i>mgmt_hw_addr1_quick</i>	(Optional) HW address
<i>port_name_quick</i>	(Optional) port description
<i>hardware_quick</i>	(Optional) Hardware is
<i>sfp_quick</i>	(Optional) sfp
<i>port_wwn_quick</i>	(Optional) port wwn
<i>peer_port_wwn_quick</i>	(Optional) peer port wwn
<i>admin_mode_quick</i>	(Optional) admin mode
<i>admin_trunk_mode_quick</i>	(Optional) admin trunk mode
<i>snmp_trap_quick</i>	(Optional) snmp trap
<i>status_quick</i>	(Optional) Status
<i>state_rsn1_quick</i>	(Optional) state reason
<i>fcot_info_quick</i>	(Optional) fcot info
<i>bind_info_quick</i>	(Optional) bind interface
<i>bind_mac_quick</i>	(Optional) bind mac
<i>bind_type_quick</i>	(Optional) bind type
<i>port_mode_quick</i>	(Optional) port mode
<i>fcid_quick</i>	(Optional) fcid
<i>cfg_port_vsan_quick</i>	(Optional) config port vsan
<i>vsan_quick</i>	(Optional) vsan for brief
<i>port_rate_mode_quick</i>	(Optional) operation port rate mode
<i>oper_speed_quick</i>	(Optional) speed
<i>admin_speed_quick</i>	(Optional) admin speed
<i>port_channel_quick</i>	(Optional) port channel
<i>ip_addr1_quick</i>	(Optional) Ip address

<i>oper_txbbcredit_quick</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit_quick</i>	(Optional) oper rx bbcredit
<i>port_bb_scn_quick</i>	(Optional) port bb scn
<i>admin_rxbufsize_quick</i>	(Optional) admin rx bufsize
<i>admin_port_encap_quick</i>	(Optional) admin port encap
<i>admin_beacon_mode_quick</i>	(Optional) admin beacon mode
<i>admin_fec_state_quick</i>	(Optional) admin fec state
<i>oper_fec_state_quick</i>	(Optional) oper fec state
<i>bundle_if_index_quick</i>	(Optional) bundle if index
<i>trkd_if_index_quick</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans_quick</i>	(Optional) Trunk vsans
<i>trkd_port_state_quick</i>	(Optional) trunk port state
<i>num_ports_quick</i>	(Optional) number of ports
TABLE_trk_intf_quick	(Optional) trunk interfaces
<i>trk_intf_quick</i>	(Optional) track interface
<i>info_type_num_quick</i>	(Optional) info type num
<i>info_model_num_quick</i>	(Optional) info model num
<i>info_manufacturer_quick</i>	(Optional) info manufacturer
<i>info_port_id_quick</i>	(Optional) info port id
<i>active_vsan_quick</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up_quick</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated_quick</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing_quick</i>	(Optional) trunk vsan initializing
<i>in_bps_quick</i>	(Optional) input bits/sec
<i>in_byps_quick</i>	(Optional) input bytes/sec
<i>in_fps_quick</i>	(Optional) input frames/sec
<i>out_bps_quick</i>	(Optional) output bits/sec
<i>out_byps_quick</i>	(Optional) output bytes/sec
<i>out_fps_quick</i>	(Optional) output frames/sec

<i>total_in_frames_quick</i>	(Optional) total in frames
<i>total_in_bytes_quick</i>	(Optional) total in bytes
<i>total_in_discards_quick</i>	(Optional) total in discards
<i>total_in_errors_quick</i>	(Optional) total in errors
<i>invalid_crc_quick</i>	(Optional) invalid crc
<i>unknown_class_frames_quick</i>	(Optional) unknown class frames
<i>frames_too_long_quick</i>	(Optional) frames too long
<i>frames_too_short_quick</i>	(Optional) frames too short
<i>total_out_frames_quick</i>	(Optional) total out frames
<i>total_out_bytes_quick</i>	(Optional) total out bytes
<i>total_out_discards_quick</i>	(Optional) total out discards
<i>total_out_errors_quick</i>	(Optional) total out errors
<i>in_ols_quick</i>	(Optional) input OLS
<i>in_lrr_quick</i>	(Optional) input LRR
<i>in_nos_quick</i>	(Optional) input NOS
<i>in_loop_inits_quick</i>	(Optional) input loop inits
<i>out_ols_quick</i>	(Optional) output OLS
<i>out_lrr_quick</i>	(Optional) output LRR
<i>out_nos_quick</i>	(Optional) output NOS
<i>out_loop_inits_quick</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff_quick</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit_quick</i>	(Optional) rx b2b credit
<i>tx_b2b_credit_quick</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre_quick</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts_quick</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets_quick</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts_quick</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets_quick</i>	(Optional) fcoe out octets
TABLE_members_quick	(Optional) table for port-channel member interface

<i>port_channel_member_quick</i>	(Optional) port-channel member interface
<i>interface_last_changed_quick</i>	(Optional) interface last changed
<i>time_last_cleared_quick</i>	(Optional) counters last cleared
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>encapsulation</i>	(Optional) Encapsulation
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed

<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherstype</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_admin_fec_state</i>	(Optional) Admin FEC state
<i>eth_oper_fec_state</i>	(Optional) Oper FEC state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec

<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns



<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>mgmt_hw_desc</i>	(Optional) HW description
<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed

<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes

<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors

<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>tunnel_vrf_name</i>	(Optional) tunnel VRF name
<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received

<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans

<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>svi_reliability</i>	(Optional) Reliability
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts

<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate
<i>switchport</i>	(Optional) Switchport enabled

**Command Mode**

- /exec

## show interface

```
show interface <iftun_desc> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<desc> ] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type>
<keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> }
<dest-hostname> <vrf_name> <tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time>
<tunnel_pmtud_min_mtu> <tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count>
<tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate>
<tunnel_clear_counter> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>tunnel_vrf_name</i>	(Optional) tunnel VRF name



<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

#### Command Mode

- /exec

## show interface

```
show interface <ifeth> [ quick ] [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ]
[ <state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <parent_interface>
] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] + [ <eth_bw> ] [ <eth_dly> ] [
<eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <medium>
] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [
<eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [ <eth_sw_tmonitor> ] [
<eth_ethertype> ] [ <eth_eee_state> ] [ <eth_admin_fec_state> ] [ <eth_oper_fec_state> ] [ <eth_members>
] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [ <eth_load_interval1_rx> ] [
<eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [
<eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts> ] [
<eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_inpkts> ] [ <eth_inbytes> ] [ <eth_jumbo_inpkts>
] [ <eth_storm_supp> ] [ <eth_runts> ] [ <eth_giants> ] [ <eth_crc> ] [ <eth_nobuf> ] [ <eth_inerr> ] [
<eth_frame> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_bad_eth>
] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_dribble> ] [ <eth_indiscard> ] [ <eth_inpause> ] [
<eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [
<eth_jumbo_outpkts> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_deferred> ] [ <eth_latecoll> ] [ <eth_lostcarrier>
] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_outdiscard> ] [ <eth_outpause> ] [ <switchport> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth</i>	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state

<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>encapsulation</i>	(Optional) Encapsulation
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type

<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_admin_fec_state</i>	(Optional) Admin FEC state
<i>eth_oper_fec_state</i>	(Optional) Oper FEC state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec

<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts

<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored

<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>switchport</i>	(Optional) Switchport enabled

### Command Mode

- /exec

## show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> <state_rsn> <state_rsn_desc>
<desc> [ <overlay_addr> ] [ <overlay_addr_mask> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [
<overlay_encap_str> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [ <overlay_dst_addr> ] [
<overlay_last_link_flap> ] [ <overlay_clear_counters> ] [ <overlay_load_interval> ] [ <overlay_rx_ucastpkts>
] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [ <overlay_rx_mcastbytes> ] [ <overlay_rx_pkts>
] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [ <overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [
<overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [ <overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ]
[ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts> ] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ]
[ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [ <overlay_tx_pktrate> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters



<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

**Command Mode**

- /exec

## show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <admin_state> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <vpc_status> ] [
<eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload>
] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media>
] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [
<eth_ratemode> ] [ <eth_swt_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_link_flapped> ] [
<eth_clear_counters> ] [ <eth_reset_cntr> ] [ <nve_addr> ] [ <nve_addr_mask> ] [ <nve_vcid> ] [ <nve_mtu>
] [ <nve_bandwidth> ] [ <nve_encap_str> ] [ <nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] [
<nve_last_link_flap> ] [ <nve_clear_counters> ] [ <nve_load_interval> ] [ <nve_rx_ucastpkts> ] [
<nve_rx_ucastbytes> ] [ <nve_rx_mcastpkts> ] [ <nve_rx_mcastbytes> ] [ <nve_rx_pkts> ] [ <nve_rx_bytes>
] [ <nve_rx_bcastpkts> ] [ <nve_rx_bcastbytes> ] [ <nve_rx_bitrate> ] [ <nve_rx_pkrate> ] [
<nve_tx_ucastpkts> ] [ <nve_tx_ucastbytes> ] [ <nve_tx_mcastpkts> ] [ <nve_tx_mcastbytes> ] [
<nve_tx_bcastpkts> ] [ <nve_tx_bcastbytes> ] [ <nve_tx_pkts> ] [ <nve_tx_bytes> ] [ <nve_tx_bitrate> ] [
<nve_tx_pkrate> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>admin_state</i>	(Optional) admin state
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address

<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>encapsulation</i>	(Optional) Encapsulation
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>nve_addr</i>	(Optional) Peer address

<i>nve_addr_mask</i>	(Optional) Peer address mask
<i>nve_vcid</i>	(Optional) VCID
<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_encap_str</i>	(Optional) Encap type
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address
<i>nve_last_link_flap</i>	(Optional) Last link flap
<i>nve_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>nve_load_interval</i>	(Optional) Load interval
<i>nve_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>nve_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>nve_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>nve_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>nve_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>nve_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>nve_rx_pkts</i>	(Optional) Total received pkts
<i>nve_rx_bytes</i>	(Optional) Total received bytes
<i>nve_rx_bitrate</i>	(Optional) Receive bit rate
<i>nve_rx_pkttrate</i>	(Optional) Receive pkt rate
<i>nve_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>nve_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>nve_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>nve_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>nve_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>nve_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>nve_tx_pkts</i>	(Optional) Total transmitted pkts
<i>nve_tx_bytes</i>	(Optional) Total transmitted bytes

<i>nve_tx_bitrate</i>	(Optional) Transmit bit rate
<i>nve_tx_pktrate</i>	(Optional) Transmit pkt rate

**Command Mode**

- /exec

## show interface aggregate-counters

```
show interface aggregate-counters [ brief ] [ __readonly__ TABLE_interface <interface_aggr> [ <str_aggr>
] [ <if_index_aggr> ] [ <in_bps_aggr> ] [ <in_byps_aggr> ] [ <in_fps_aggr> ] [ <out_bps_aggr> ] [
<out_byps_aggr> ] [ <out_fps_aggr> ] [ <total_in_frames_aggr> ] [ <total_in_bytes_aggr> ] [
<C2InFrames_aggr> ] [ <C2InOctets_aggr> ] [ <C3InFrames_aggr> ] [ <C3InOctets_aggr> ] [
<CfInFrames_aggr> ] [ <CfInOctets_aggr> ] [ <total_in_discards_aggr> ] [ <total_in_errors_aggr> ] [
<InvalidCrcs_aggr> ] [ <UnknownClassFrames_aggr> ] [ <FramesTooLong_aggr> ] [ <FramesTooShort_aggr>
] [ <total_out_frames_aggr> ] [ <total_out_bytes_aggr> ] [ <C2OutFrames_aggr> ] [ <C2OutOctets_aggr> ]
[ <C3OutFrames_aggr> ] [ <C3OutOctets_aggr> ] [ <CfOutFrames_aggr> ] [ <CfOutOctets_aggr> ] [
<total_out_discards_aggr> ] [ <total_out_errors_aggr> ] [ <OlsIns_aggr> ] [ <LRRIn_aggr> ] [ <NOSIn_aggr>
] [ <in_lip_aggr> ] [ <OlsOuts_aggr> ] [ <LRROut_aggr> ] [ <NOSOut_aggr> ] [ <out_lip_aggr> ] [
<LinkFailures_aggr> ] [ <SyncLosses_aggr> ] [ <SigLosses_aggr> ] [ <TxBBCreditTransistionToZero_aggr>
] [ <RxBBCreditTransistionToZero_aggr> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit>
] [ <tx_b2b_low_pri_cre> ] [ <InputRate_aggr_brief> ] [ <TotalIpFrame_aggr_brief> ] [ <OutRate_aggr_brief>
] [ <TotalOpFrame_aggr_brief> ] [ <line_aggr_brief> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
__readonly__	(Optional) Read Only
<i>interface_aggr</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>str_aggr</i>	(Optional) string
<i>if_index_aggr</i>	(Optional) index
<i>in_bps_aggr</i>	(Optional) input rate in bits/s
<i>in_byps_aggr</i>	(Optional) input rate in bytes/s
<i>in_fps_aggr</i>	(Optional) input rate in frames/s
<i>out_bps_aggr</i>	(Optional) output rate in bits/s
<i>out_byps_aggr</i>	(Optional) output rate in bytes/s
<i>out_fps_aggr</i>	(Optional) output rate in frames/s
<i>total_in_frames_aggr</i>	(Optional) total input frames
<i>total_in_bytes_aggr</i>	(Optional) total input frames
<i>C2InFrames_aggr</i>	(Optional) class-2 frames

<i>C2InOctets_aggr</i>	(Optional) class-2 frames in bytes
<i>C3InFrames_aggr</i>	(Optional) class-3 frames
<i>C3InOctets_aggr</i>	(Optional) class-3 frames in bytes
<i>CfInFrames_aggr</i>	(Optional) class-f frames
<i>CfInOctets_aggr</i>	(Optional) class-f frames in bytes
<i>total_in_discards_aggr</i>	(Optional) total in discards
<i>total_in_errors_aggr</i>	(Optional) total in errors
<i>InvalidCrcs_aggr</i>	(Optional) invalid CRC
<i>UnknownClassFrames_aggr</i>	(Optional) unknown class
<i>FramesTooLong_aggr</i>	(Optional) too long
<i>FramesTooShort_aggr</i>	(Optional) too short
<i>total_out_frames_aggr</i>	(Optional) total out frames
<i>total_out_bytes_aggr</i>	(Optional) total out frames in byte
<i>C2OutFrames_aggr</i>	(Optional) class-2 out frames
<i>C2OutOctets_aggr</i>	(Optional) class-2 out frames in bytes
<i>C3OutFrames_aggr</i>	(Optional) class-3 out frames
<i>C3OutOctets_aggr</i>	(Optional) class-3 out frames in bytes
<i>CfOutFrames_aggr</i>	(Optional) class-f out frames
<i>CfOutOctets_aggr</i>	(Optional) class-f out frames in bytes
<i>total_out_discards_aggr</i>	(Optional) total out discards
<i>total_out_errors_aggr</i>	(Optional) total out errors
<i>OlsIns_aggr</i>	(Optional) input OLS
<i>LRRIn_aggr</i>	(Optional) input LRR
<i>NOSIn_aggr</i>	(Optional) input NOS
<i>in_lip_aggr</i>	(Optional) loop inits
<i>OlsOuts_aggr</i>	(Optional) output OLS
<i>LRROut_aggr</i>	(Optional) output LRR
<i>NOSOut_aggr</i>	(Optional) output NOS
<i>out_lip_aggr</i>	(Optional) loop inits

<i>LinkFailures_aggr</i>	(Optional) link failure
<i>SyncLosses_aggr</i>	(Optional) sync losses
<i>SigLosses_aggr</i>	(Optional) signal losses
<i>TxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>RxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>rx_b2b_perf_buff</i>	(Optional) rx B2B performance buff
<i>rx_b2b_credit</i>	(Optional) rx B2B credit
<i>tx_b2b_credit</i>	(Optional) tx B2B credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx B2B low price credit
<i>InputRate_aggr_brief</i>	(Optional) Input rate in MBps
<i>TotalIpFrame_aggr_brief</i>	(Optional) Total input frames
<i>OutRate_aggr_brief</i>	(Optional) Output rate in MBps
<i>TotalOpFrame_aggr_brief</i>	(Optional) Total output frames
<i>line_aggr_brief</i>	(Optional) to print a line

**Command Mode**

- /exec



## show interface aggregate-counters

```
show interface <ifid_aggr_ctrs> aggregate-counters [ brief ] [ __readonly__ TABLE_interface <interface_aggr>
[ <str_aggr> ] [ <if_index_aggr> ] [ <in_bps_aggr> ] [ <in_byps_aggr> ] [ <in_fps_aggr> ] [ <out_bps_aggr> ]
[ <out_byps_aggr> ] [ <out_fps_aggr> ] [ <total_in_frames_aggr> ] [ <total_in_bytes_aggr> ] [
<C2InFrames_aggr> ] [ <C2InOctets_aggr> ] [ <C3InFrames_aggr> ] [ <C3InOctets_aggr> ] [
<CfInFrames_aggr> ] [ <CfInOctets_aggr> ] [ <total_in_discards_aggr> ] [ <total_in_errors_aggr> ] [
<InvalidCrcs_aggr> ] [ <UnknownClassFrames_aggr> ] [ <FramesTooLong_aggr> ] [ <FramesTooShort_aggr> ]
[ <total_out_frames_aggr> ] [ <total_out_bytes_aggr> ] [ <C2OutFrames_aggr> ] [ <C2OutOctets_aggr> ]
[ <C3OutFrames_aggr> ] [ <C3OutOctets_aggr> ] [ <CfOutFrames_aggr> ] [ <CfOutOctets_aggr> ] [
<total_out_discards_aggr> ] [ <total_out_errors_aggr> ] [ <OlsIns_aggr> ] [ <LRRIn_aggr> ] [ <NOSIn_aggr> ]
[ <in_lip_aggr> ] [ <OlsOuts_aggr> ] [ <LRROut_aggr> ] [ <NOSOut_aggr> ] [ <out_lip_aggr> ] [
<LinkFailures_aggr> ] [ <SyncLosses_aggr> ] [ <SigLosses_aggr> ] [ <TxBBCreditTransistionToZero_aggr> ]
[ <RxBBCreditTransistionToZero_aggr> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ]
[ <tx_b2b_low_pri_cre> ] [ <InputRate_aggr_brief> ] [ <TotalIpFrame_aggr_brief> ] [ <OutRate_aggr_brief> ]
[ <TotalOpFrame_aggr_brief> ] [ <line_aggr_brief> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_aggr_ctrs</i>	Enter interface type and number in module/slot format
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
__readonly__	(Optional) Read Only
<i>interface_aggr</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>str_aggr</i>	(Optional) string
<i>if_index_aggr</i>	(Optional) index
<i>in_bps_aggr</i>	(Optional) input rate in bits/s
<i>in_byps_aggr</i>	(Optional) input rate in bytes/s
<i>in_fps_aggr</i>	(Optional) input rate in frames/s
<i>out_bps_aggr</i>	(Optional) output rate in bits/s
<i>out_byps_aggr</i>	(Optional) output rate in bytes/s
<i>out_fps_aggr</i>	(Optional) output rate in frames/s
<i>total_in_frames_aggr</i>	(Optional) total input frames
<i>total_in_bytes_aggr</i>	(Optional) total input frames

<i>C2InFrames_aggr</i>	(Optional) class-2 frames
<i>C2InOctets_aggr</i>	(Optional) class-2 frames in bytes
<i>C3InFrames_aggr</i>	(Optional) class-3 frames
<i>C3InOctets_aggr</i>	(Optional) class-3 frames in bytes
<i>CfInFrames_aggr</i>	(Optional) class-f frames
<i>CfInOctets_aggr</i>	(Optional) class-f frames in bytes
<i>total_in_discards_aggr</i>	(Optional) total in discards
<i>total_in_errors_aggr</i>	(Optional) total in errors
<i>InvalidCrcs_aggr</i>	(Optional) invalid CRC
<i>UnknownClassFrames_aggr</i>	(Optional) unknown class
<i>FramesTooLong_aggr</i>	(Optional) too long
<i>FramesTooShort_aggr</i>	(Optional) too short
<i>total_out_frames_aggr</i>	(Optional) total out frames
<i>total_out_bytes_aggr</i>	(Optional) total out frames in byte
<i>C2OutFrames_aggr</i>	(Optional) class-2 out frames
<i>C2OutOctets_aggr</i>	(Optional) class-2 out frames in bytes
<i>C3OutFrames_aggr</i>	(Optional) class-3 out frames
<i>C3OutOctets_aggr</i>	(Optional) class-3 out frames in bytes
<i>CfOutFrames_aggr</i>	(Optional) class-f out frames
<i>CfOutOctets_aggr</i>	(Optional) class-f out frames in bytes
<i>total_out_discards_aggr</i>	(Optional) total out discards
<i>total_out_errors_aggr</i>	(Optional) total out errors
<i>OlsIns_aggr</i>	(Optional) input OLS
<i>LRRIn_aggr</i>	(Optional) input LRR
<i>NOSIn_aggr</i>	(Optional) input NOS
<i>in_lip_aggr</i>	(Optional) loop inits
<i>OlsOuts_aggr</i>	(Optional) output OLS
<i>LRROut_aggr</i>	(Optional) output LRR
<i>NOSOut_aggr</i>	(Optional) output NOS

<i>out_lip_aggr</i>	(Optional) loop inits
<i>LinkFailures_aggr</i>	(Optional) link failure
<i>SyncLosses_aggr</i>	(Optional) sync losses
<i>SigLosses_aggr</i>	(Optional) signal losses
<i>TxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>RxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>rx_b2b_perf_buff</i>	(Optional) rx B2B performance buff
<i>rx_b2b_credit</i>	(Optional) rx B2B credit
<i>tx_b2b_credit</i>	(Optional) tx B2B credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx B2B low price credit
<i>InputRate_aggr_brief</i>	(Optional) Input rate in MBps
<i>TotalIpFrame_aggr_brief</i>	(Optional) Total input frames
<i>OutRate_aggr_brief</i>	(Optional) Output rate in MBps
<i>TotalOpFrame_aggr_brief</i>	(Optional) Total output frames
<i>line_aggr_brief</i>	(Optional) to print a line

### Command Mode

- /exec

## show interface bbcredit

```
show interface <ifid_bbcrd> bbcredit [ __readonly__ TABLE_interface [ <interface_sfp> <state> [
<down_reason> ] [ <transmit_b2b> ] [ <receive_b2b> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [
<tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_bbcrd</i>	Enter interface type and number in module/slot format
bbcredit	Show BB_credit information for interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface_sfp</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) State
<i>down_reason</i>	(Optional) Reason for interface being down
<i>transmit_b2b</i>	(Optional) Transmit B2B
<i>receive_b2b</i>	(Optional) Receive B2B
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit

### Command Mode

- /exec

## show interface brief

```
show interface <ifpch_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <proto> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifpch_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>proto</i>	(Optional) Port Channel Protocol

### Command Mode

- /exec

## show interface brief

```

show interface <ifid_brf> brief [ __readonly__ { TABLE_interface <interface> [ <desc> ] [ <svi_if_index>
] [ <svi_admin_state> ] [ <oper_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ]
] [ <svi_desc> ] [ <svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <vlan_id>
] [ <type> ] ] [ <svi_tx_load> ] [ <svi_rx_load> ] [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec>
] [ <svi_arp_type> ] [ <svi_arp_timeout> ] [ <svi_time_last_cleared> ] ] [ { TABLE_secondary_vlan
<sec_vlan> <sec_vlan_type> } ] [ <eth_load_intervall_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ]
] [ <eth_load_intervall_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ]
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_overrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast>
] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
] [ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll>
] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127>
] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [
<eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [
<eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [
<eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [
<eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ] [
<eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ] [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out>
] [ <svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [
<svi_ipv4_ucast_pkts_out> ] [ <svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [
<svi_ipv4_mcast_bytes_in> ] [ <svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [

```

```
<svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][ <svi_ipv6_ucast_pkts_out> ][
<svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][ <svi_ipv6_mcast_bytes_in> ][
<svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][ <svi_average_input_bits> ][
<svi_average_input_packets> ][ <svi_average_output_bits> ][ <svi_average_output_packets> ][
<svi_rate_in_mins> ]][ [ <svi_reliability> ]][ <switchport> ] } }
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<u>__readonly__</u>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>desc</i>	(Optional) Interface description
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load

<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_secondary_vlan	(Optional) Secondary vlan
<i>sec_vlan</i>	(Optional) Secondary vlan ID
<i>sec_vlan_type</i>	(Optional) Secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec



<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes

<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC

<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overnrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures

<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes

<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>svi_reliability</i>	(Optional) Reliability
<i>switchport</i>	(Optional) Switchport enabled

**Command Mode**

- /exec

## show interface brief

```
show interface brief [ controller | cli ] [ __readonly__ { TABLE_interface [ <interface> ] [ <vlan> ] [ <type>
] [ <portmode> ] [ <state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <vrf> ] [ <ipv6_addr> ] [ <ip_addr>
] [ <speed> ] [ <mtu> ] [ <ratemode> ] [ <portchan> ] [ <proto> ] [ <interface_vfc> ] [ <vsan_brief> ] [
<admin_mode> ] [ <admin_trunk_mode> ] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [
<bind_mac> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] [ {
TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> } ] [ <svi_admin_state> ] [ <svi_rsn_desc> } ] }
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
brief	Show brief info of interface
controller	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
cli	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>vrf</i>	(Optional) Vrf membership
<i>ip_addr</i>	(Optional) IP address
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership
<i>proto</i>	(Optional) Port Channel Protocol

<i>interface_vfc</i>	(Optional) Interface index
<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac address
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr1</i>	(Optional) IP address
TABLE_secondary_vlan	(Optional) Secondary vlan
<i>sec_vlan</i>	(Optional) Secondary vlan ID
<i>sec_vlan_type</i>	(Optional) Secondary vlan type
<i>svi_admin_state</i>	(Optional) svi admin state
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed

### Command Mode

- /exec

# show interface brief

show interface <ifloop\_brf> brief [ \_\_readonly\_\_ TABLE\_interface <interface> <state> [ <desc> ] ]

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>desc</i>	(Optional) Interface description

## Command Mode

- /exec



## show interface brief

```
show interface <iftunnel_brf> brief [ __readonly__ TABLE_interface <interface> <state> <admin-state> {
<tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries>
{ <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name>
<tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
<tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftunnel_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>tunnel_vrf_name</i>	(Optional) tunnel VRF name
<i>wccp_header</i>	(Optional) wccp header

<i>ttl_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

**Command Mode**

- /exec

# show interface brief

```
show interface <ifmgmt_brf> brief [ __readonly__ TABLE_interface <interface> [ <vrf> ] <state> [
<ipv6_addr> ] [ <ip_addr> ] <mtu> <speed> [ <duplex> ] ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vrf</i>	(Optional) Vrf membership
<i>state</i>	(Optional) Interface state
<i>ip_addr</i>	(Optional) IP address
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex

## Command Mode

- /exec

## show interface brief

```
show interface <ifeth_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <portchan> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership

### Command Mode

- /exec

## show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [
<overlay_dst_addr> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address

### Command Mode

- /exec

# show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <admin_state> ] [ <nve_addr> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth> ] [
<nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state
<i>nve_addr</i>	(Optional) Peer address
<i>nve_vcid</i>	(Optional) VCID
<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address

## Command Mode

- /exec

## show interface cable-diagnostics-tdr

```
show interface <ifid_tdr> cable-diagnostics-tdr [ __readonly__ TABLE interface <interface> <speed>
<distance1> <pair1_status> <distance2> <pair2_status> <distance3> <pair3_status> <distance4> <pair4_status>
]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_tdr</i>	Enter interface type and number in module/slot format
cable-diagnostics-tdr	Show interface tdr test information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>speed</i>	(Optional) Speed
<i>distance1</i>	(Optional) Distance to fault for pair 1
<i>distance2</i>	(Optional) Distance to fault for pair 2
<i>distance3</i>	(Optional) Distance to fault for pair 3
<i>distance4</i>	(Optional) Distance to fault for pair 4
<i>pair1_status</i>	(Optional) Pair1 status
<i>pair2_status</i>	(Optional) Pair2 status
<i>pair3_status</i>	(Optional) Pair3 status
<i>pair4_status</i>	(Optional) Pair4 status

### Command Mode

- /exec

## show interface capabilities

```
show interface <ifid_eth_cap> capabilities [ __readonly__ TABLE_interface <interface> <model> <type>
<speed> <duplex> <trunk_encap> [ <dce_capable> ] <channel> <bcast_supp> <flo_ctrl> <rate_mode>
<port_mode> [ <fast_start> ] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span>
<udld> [ <mdix> ] [ <tdr> ] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [
<pvlan_trunk_mode> ] [ <port_group> ] [ <port_group_members> ] <eee_capable> <pfc_capable> [
<speed_group_capable> ] <buffer_boost_capable> [ <bkout_capable> ] [ <macsec_capable> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_eth_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite



<i>inline_power</i>	(Optional) Inline power
<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

**Command Mode**

- /exec

## show interface capabilities

```
show interface <ifid_cap> capabilities [ __readonly__ { TABLE_interface_capabilities_if <interface> [
<min_speed> ][ <max_speed> ][ <FC-PH_version_high> ][ <FC-PH_version_low> ][ <recieve_data_max>
][ <recieve_data_min> ][ <transmit_data_max> ][ <transmit_data_min> ][ <class_service> ][ <class_2>
][ <class_3> ][ <hold_time_max> ][ <hold_time_min> ][ <BB_state_change> ][ <max_BB_state_change>
][ <rate_mode_change> ][ <rate_mode_cap> ][ <recieve_BB_credit> ][ <FX_recieve_BB_credit> ][
<ISL_recieve_BB_credit> ][ <shared_performance_buf_mod_supp> ][
<dedicated_performance_buf_mod_supp> ][ <fx_mode_perf_buf> ][ <isl_mode_perf_buf> ][ <out_of_order>
][ <beacon_mode_config> ][ <extended_B2B> ][ <on_demand_port> } ] }
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional)
TABLE_interface_capabilities_if	(Optional) interface capabilities if table
<i>interface</i>	(Optional) fc interface
<i>min_speed</i>	(Optional) Min Speed
<i>max_speed</i>	(Optional) Max Speed
<i>FC-PH_version_high</i>	(Optional) FC-PH version high
<i>FC-PH_version_low</i>	(Optional) FC-PH version low
<i>recieve_data_max</i>	(Optional) Receive data field size max
<i>recieve_data_min</i>	(Optional) Receive data field size min
<i>transmit_data_max</i>	(Optional) Transmit data field size max
<i>transmit_data_min</i>	(Optional) Transmit data field size min
<i>class_service</i>	(Optional) Classes of Service supported
<i>class_2</i>	(Optional) Class 2 sequential delivery
<i>class_3</i>	(Optional) Class 3 sequential delivery
<i>hold_time_max</i>	(Optional) Hold time max
<i>hold_time_min</i>	(Optional) Hold time min
<i>BB_state_change</i>	(Optional) BB state change notification

<i>max_BB_state_change</i>	(Optional) Maximum BB state change notifications
<i>rate_mode_change</i>	(Optional) Rate Mode change
<i>rate_mode_cap</i>	(Optional) Rate Mode Capabilities
<i>recieve_BB_credit</i>	(Optional) Receive BB Credit modification supported
<i>FX_recieve_BB_credit</i>	(Optional) FX mode Receive BB Credit (min/max/default)
<i>ISL_recieve_BB_credit</i>	(Optional) ISL mode Receive BB Credit (min/max/default)
<i>shared_performance_buf_mod_supp</i>	(Optional) Performance buffer modification supported shared
<i>dedicated_performance_buf_mod_supp</i>	(Optional) Performance buffer modification supported dedicated
<i>fx_mode_perf_buf</i>	(Optional) FX mode performance buffers
<i>isl_mode_perf_buf</i>	(Optional) ISL mode performance buffers
<i>out_of_order</i>	(Optional) Out of Service capable
<i>beacon_mode_config</i>	(Optional) Beacon mode configurable
<i>extended_B2B</i>	(Optional) Extended B2B credit capable
<i>on_demand_port</i>	(Optional) On demand port activation license supported

**Command Mode**

- /exec

## show interface capabilities

```
show interface capabilities [ __readonly__ TABLE_interface <interface> <model> <type> <speed> <duplex>
<trunk_encap> [ <dce_capable> ] <channel> <bcast_supp> <flo_ctrl> <rate_mode> <port_mode> [ <fast_start>
] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span> <udld> [ <mdix> ] [ <tdr> ]
<lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [ <pvlan_trunk_mode> ] [ <port_group>
] [ <port_group_members> ] <eee_capable> <pfc_capable> [ <speed_group_capable> ] <buffer_boost_capable>
[ <bkout_capable> ] [ <macsec_capable> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite
<i>inline_power</i>	(Optional) Inline power

<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

### Command Mode

- /exec

## show interface counters

```
show interface counters [ non-zero ] [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inpkts> ]
[ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
non-zero	(Optional) To display only the non-zero counter values
__readonly__	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts

<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

**Command Mode**

- /exec

## show interface counters

```
show interface <ifid_ctr> counters [ brief ] [ __readonly__ ] [ { TABLE_counters <sfp> { TABLE_input_rate
<bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_output_rate <bit_per_sec> <bytes_per_sec>
<frames_per_sec> } { TABLE_input <frames> <bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [
<class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames> ] [ <class_f_bytes> ] [ <class_2_3_frames> ]
<discards> <errors> <crc_fcs> <unknown_class> <too_long> <too_short> } { TABLE_output <frames>
<bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [ <class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames>
] [ <class_f_bytes> ] [ <class_2_3_frames> ] [ <discards> ] [ <errors> ] [ <crc_fcs> ] [ <timeout_discards>
] [ <credit_loss> ] [ <input_ols> ] [ <input_lrr> ] [ <input_nos> ] [ <input_loop_inits> ] [ <output_ols> ] [
<output_lrr> ] [ <output_nos> ] [ <output_loop_inits> ] [ <link_faliures> ] [ <sync_loss> ] [ <signal_loss> ]
[ <b2b_transmit> ] [ <b2b_receive> ] [ <txwait> ] [ <tx_credit_unavbl> ] [ <b2b_receive_remain> ] [
<b2b_transmit_remain> ] [ <low_priority_b2b_remain> ] [ <off_seq_err_rcvd> ] [ <broadcast_frames> ] [
<errors> ] [ <queue_drops> ] [ <if_down_drops> ] [ <red_drops> ] [ <bad_ether_type_drops> ] [
<bad_protocol_drops> ] [ <arp_drops> ] [ <reass_frames> ] [ <timestamp_error> ] [ <rx_b2b_perf_buff> ]
[ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <time_last_cleared> ] } ] [ {
TABLE_counters_brief <sfp> <fc_input_rate> <fc_frames_in> <fc_output_rate> <fc_frames_out> } ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	(Optional) Show interface counters in brief
__readonly__	(Optional) Readonly
TABLE_counters	(Optional) Table counters
<i>sfp</i>	(Optional) SFP
TABLE_input_rate	(Optional) Input rate
<i>bit_per_sec</i>	(Optional) Input rate bits per second
<i>bytes_per_sec</i>	(Optional) Input rate bytes per second
<i>frames_per_sec</i>	(Optional) Input rate frames per second
TABLE_output_rate	(Optional) Output rate
<i>bit_per_sec</i>	(Optional) Output rate bits per second
<i>bytes_per_sec</i>	(Optional) Output rate bytes per second
<i>frames_per_sec</i>	(Optional) Output rate frames per second
TABLE_input	(Optional) Input values



<i>frames</i>	(Optional) Frames
<i>bytes</i>	(Optional) Bytes
<i>class_2_frames</i>	(Optional) Class 2 frames
<i>class_2_bytes</i>	(Optional) Class 2 bytes
<i>class_3_frames</i>	(Optional) Class 3 frames
<i>class_3_bytes</i>	(Optional) Class 3 bytes
<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes</i>	(Optional) Class f bytes
<i>class_2_3_frames</i>	(Optional) Class 2/3 Frames
<i>discards</i>	(Optional) Discards
<i>errors</i>	(Optional) Errors
<i>crc_fcs</i>	(Optional) CRC/FCS
<i>unknown_class</i>	(Optional) Unknown Class
<i>too_long</i>	(Optional) Frames too long
<i>too_short</i>	(Optional) Frames too short
TABLE_output	(Optional) Output Values
<i>frames</i>	(Optional) Frames
<i>bytes</i>	(Optional) Bytes
<i>class_2_frames</i>	(Optional) Class 2 frames
<i>class_2_bytes</i>	(Optional) Class 2 bytes
<i>class_3_frames</i>	(Optional) Class 3 frames
<i>class_3_bytes</i>	(Optional) Class 3 bytes
<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes</i>	(Optional) Class f bytes
<i>class_2_3_frames</i>	(Optional) Class 2/3 frames
<i>discards</i>	(Optional) Discards
<i>errors</i>	(Optional) Errors
<i>crc_fcs</i>	(Optional) CRC/FCS
<i>timeout_discards</i>	(Optional) Timeout Discards

<i>credit_loss</i>	(Optional) Credit Loss
<i>input_ols</i>	(Optional) input ols
<i>input_lrr</i>	(Optional) input LRR
<i>input_nos</i>	(Optional) input NOS
<i>input_loop_inits</i>	(Optional) input loop inits
<i>output_ols</i>	(Optional) output OLS
<i>output_lrr</i>	(Optional) output LRR
<i>output_nos</i>	(Optional) output NOS
<i>output_loop_inits</i>	(Optional) output loop inits
<i>link_faliures</i>	(Optional) link faliures
<i>sync_loss</i>	(Optional) Sync loss
<i>signal_loss</i>	(Optional) Signal loss
<i>b2b_transmit</i>	(Optional) B2B transmit
<i>b2b_receive</i>	(Optional) B2B receive
<i>txwait</i>	(Optional) TxWait
<i>tx_credit_unavbl</i>	(Optional) Tx credit unavliable
<i>b2b_receive_remain</i>	(Optional) B2B receive remain
<i>b2b_transmit_remain</i>	(Optional) B2B transmit remain
<i>low_priority_b2b_remain</i>	(Optional) Low priority B2B credit remaining
<i>time_last_cleared</i>	(Optional) Last time cleared
<i>broadcast_frames</i>	(Optional) Broadcast frames
<i>errors</i>	(Optional) Errors
<i>queue_drops</i>	(Optional) Queue drops
<i>if_down_drops</i>	(Optional) If down drops
<i>red_drops</i>	(Optional) Red drops
<i>bad_ether_type_drops</i>	(Optional) Bad ether type drops
<i>bad_protocol_drops</i>	(Optional) Bad Protocol Drops
<i>arp_drops</i>	(Optional) Arp Drops
<i>timestamp_error</i>	(Optional) Timestamp Error

<i>reass_frames</i>	(Optional) Reass Frames
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit
<i>off_seq_err_rcvd</i>	(Optional) Offset Sequence Error Received
TABLE_counters_brief	(Optional) Table counters brief
<i>sfp</i>	(Optional) FC id
<i>fc_input_rate</i>	(Optional) Input rate
<i>fc_frames_in</i>	(Optional) Frames in
<i>fc_output_rate</i>	(Optional) Output rate
<i>fc_frames_out</i>	(Optional) Frames out

**Command Mode**

- /exec

## show interface counters

```
show interface <ifid_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

### Command Mode

- /exec

## show interface counters

```
show interface counters [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <fc_inframes> ] [ <eth_inbytes> ] [ <fc_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [
<eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts>
] } { TABLE_tx_counters <interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts>
] [ <eth_l3out_bcastpkts> ] } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>fc_inframes</i>	(Optional) Frames input fc
<i>eth_inbytes</i>	(Optional) Bytes input
<i>fc_inbytes</i>	(Optional) Bytes input fc
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

**Command Mode**

- /exec

## show interface counters

```
show interface <ifeth_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes>
] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

**Command Mode**

- /exec



# show interface counters

```
show interface <ifeth_ctr> counters [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inbytes> ]
[ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters <interface_tx> [ <eth_outbytes>
] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ]
[ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts

<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

**Command Mode**

- /exec

## show interface counters

```
show interface <ifrange> counters [ __readonly__ TABLE_interface <interface> [ <overlay_load_interval>
] [ <overlay_rx_ucastpkts> ] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [
<overlay_rx_mcastbytes> ] [ <overlay_rx_pkts> ] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [
<overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [ <overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [
<overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ] [ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts>
] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ] [ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [
<overlay_tx_pktrate> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes

<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted beast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted beast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

**Command Mode**

- /exec

## show interface counters

```
show interface <ifrange> counters [ __readonly__ { TABLE_nve_counters <interface> [ <ucast_inbytes> ]
[ <ucast_inpkts> ] [ <ucast_outbytes> ] [ <ucast_outpkts> ] [ <mcast_inbytes> ] [ <mcast_inpkts> ] [
<mcast_outbytes> ] [ <mcast_outpkts> ] } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_nve_counters	(Optional) show interface
<i>ucast_inbytes</i>	(Optional) ucast bytes input
<i>ucast_inpkts</i>	(Optional) ucast packets input
<i>ucast_outbytes</i>	(Optional) ucast bytes output
<i>ucast_outpkts</i>	(Optional) ucast packets output
<i>mcast_inbytes</i>	(Optional) mcast bytes input
<i>mcast_inpkts</i>	(Optional) mcast packets input
<i>mcast_outbytes</i>	(Optional) mcast bytes output
<i>mcast_outpkts</i>	(Optional) mcast packets output

### Command Mode

- /exec

## show interface counters brief

```
show interface counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface> ] [ <eth_inrate1> ] [ <eth_inframes1> ] [ <eth_outrate1> ] [ <eth_outframes1> ] [ <eth_load_intv1> ] [ <eth_inrate2> ] [ <eth_inframes2> ] [ <eth_outrate2> ] [ <eth_outframes2> ] [ <eth_load_intv2> ] [ <eth_inrate3> ] [ <eth_inframes3> ] [ <eth_outrate3> ] [ <eth_outframes3> ] [ <eth_load_intv3> ] [ <fc_input_rate> ] [ <fc_frames_in> ] [ <fc_output_rate> ] [ <fc_frames_out> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps
<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec

<i>fc_input_rate</i>	(Optional) Input rate
<i>fc_frames_in</i>	(Optional) Frames in
<i>fc_output_rate</i>	(Optional) Output rate
<i>fc_frames_out</i>	(Optional) Frames out

**Command Mode**

- /exec

## show interface counters brief

```
show interface <ifeth_ctr_brf> counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface>
<eth_inrate1> <eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv1> <eth_inrate2>
<eth_inframes2> <eth_outrate2> <eth_outframes2> <eth_load_intv2> [ <eth_inrate3> <eth_inframes3>
<eth_outrate3> <eth_outframes3> <eth_load_intv3> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_brf</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps
<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)



<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
-----------------------	--

**Command Mode**

- /exec

## show interface counters detailed

```

show interface counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [ <vdc_lvl_in_pkts>
] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_in_avg_bytes> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [
<vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [ <vdc_lvl_out_avg_pkts> ] [
<vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [ <mgmt_in_mcast> ] [
<mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [ <mgmt_in_overrun> ] [
<mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_out_underruns> ] [
<mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col> ] [ <mgmt_excess_col>
] [ <mgmt_carri_sen> ] [ <mgmt_runts> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx>
] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] [ <loop_in_pkts> ] [
<loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] [
<eth_load_intervall_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts>
] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [
<eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants> ] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outpkts> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [ <eth_outbytes> ] [ <eth_outb64> ] [
<eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [
<eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf> ] [ <eth_runts> ] [
<eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [ <eth_lostcarrier> ] [
<eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr> ] [ <eth_outerr> ] [
<eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [ <eth_multi_coll> ] [
<eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [
<eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_fcoe_in_pkts>

```

```

]] [<eth_fcoe_in_octets> ] [<eth_fcoe_out_pkts> ] [<eth_fcoe_out_octets> ] [<eth_nfcoe_in_pkts> ] [
<eth_nfcoe_in_octets> ] [<eth_nfcoe_out_pkts> ] [<eth_nfcoe_out_octets> ] [<svi_routed_pkts_in> ] [
<svi_routed_bytes_in> ] [<svi_routed_pkts_out> ] [<svi_routed_bytes_out> ] [<svi_ucast_pkts_in> ] [
<svi_ucast_bytes_in> ] [<svi_mcast_pkts_in> ] [<svi_mcast_bytes_in> ] [<svi_ucast_pkts_out> ] [
<svi_ucast_bytes_out> ] [<svi_mcast_pkts_out> ] [<svi_mcast_bytes_out> ] [<svi_ipv4_ucast_pkts_in> ] [
<svi_ipv4_ucast_bytes_in> ] [<svi_ipv4_ucast_pkts_out> ] [<svi_ipv4_ucast_bytes_out> ] [
<svi_ipv4_mcast_pkts_in> ] [<svi_ipv4_mcast_bytes_in> ] [<svi_ipv4_mcast_pkts_out> ] [
<svi_ipv4_mcast_bytes_out> ] [<svi_ipv6_ucast_pkts_in> ] [<svi_ipv6_ucast_bytes_in> ] [
<svi_ipv6_ucast_pkts_out> ] [<svi_ipv6_ucast_bytes_out> ] [<svi_ipv6_mcast_pkts_in> ] [
<svi_ipv6_mcast_bytes_in> ] [<svi_ipv6_mcast_pkts_out> ] [<svi_ipv6_mcast_bytes_out> ] [
<svi_average_input_bits> ] [<svi_average_input_packets> ] [<svi_average_output_bits> ] [
<svi_average_output_packets> ] [<svi_rate_in_mins> ] [<svi_time_last_cleared> ] [<svi_tx_load> ] [
<svi_rx_load> ] [<svi_reliability> ] [<input_rate_bit_per_sec> ] [<input_rate_bytes_per_sec> ] [
<input_rate_frames_per_sec> ] [<output_rate_bit_per_sec> ] [<output_rate_bytes_per_sec> ] [
<output_rate_frames_per_sec> ] [<in_frames> ] [<in_bytes> ] [<class_2_in_frames> ] [<class_2_in_bytes> ] [
<class_3_in_frames> ] [<class_3_in_bytes> ] [<class_f_in_frames> ] [<class_f_in_bytes> ] [
<class_2_3_in_frames> ] [<in_discards> ] [<in_errors> ] [<in_crc_fcs> ] [<in_unknown_class> ] [
<in_too_long> ] [<in_too_short> ] [<out_frames> ] [<out_bytes> ] [<class_2_out_frames> ] [
<class_2_out_bytes> ] [<class_3_out_frames> ] [<class_3_out_bytes> ] [<class_f_out_frames> ] [
<class_f_out_bytes> ] [<class_2_3_out_frames> ] [<out_discards> ] [<out_errors> ] [<out_crc_fcs> ] [
<timeout_discards> ] [<credit_loss> ] [<input_ols> ] [<input_lrr> ] [<input_nos> ] [<input_loop_inits> ] [
<output_ols> ] [<output_lrr> ] [<output_nos> ] [<output_loop_inits> ] [<link_faliures> ] [<sync_loss> ] [
<signal_loss> ] [<b2b_transmit> ] [<b2b_receive> ] [<txwait> ] [<tx_credit_unavbl> ] [
<b2b_receive_remain> ] [<b2b_transmit_remain> ] [<low_priority_b2b_remain> ] [<off_seq_err_rcvd> ] [
<broadcast_frames> ] [<errors> ] [<queue_drops> ] [<if_down_drops> ] [<red_drops> ] [
<bad_ether_type_drops> ] [<bad_protocol_drops> ] [<arp_drops> ] [<reass_frames> ] [<timestamp_error> ] [
<rx_b2b_perf_buff> ] [<rx_b2b_credit> ] [<tx_b2b_credit> ] [<tx_b2b_low_pri_cre> ] [
<time_last_cleared> ] ]

```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(Optional) VDC level input multicast packets

<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overnrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors

<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns

<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec

<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes

<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions



<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes

<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets

<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability
<i>input_rate_bit_per_sec</i>	(Optional) Input rate bits per second
<i>input_rate_bytes_per_sec</i>	(Optional) Input rate bytes per second
<i>input_rate_frames_per_sec</i>	(Optional) Input rate frames per second
<i>output_rate_bit_per_sec</i>	(Optional) Output rate bits per second
<i>output_rate_bytes_per_sec</i>	(Optional) Output rate bytes per second
<i>output_rate_frames_per_sec</i>	(Optional) Output rate frames per second
<i>in_frames</i>	(Optional) Frames
<i>in_bytes</i>	(Optional) Bytes
<i>class_2_in_frames</i>	(Optional) Class 2 frames
<i>class_2_in_bytes</i>	(Optional) Class 2 bytes
<i>class_3_in_frames</i>	(Optional) Class 3 frames
<i>class_3_in_bytes</i>	(Optional) Class 3 bytes
<i>class_f_in_frames</i>	(Optional) Class f frames
<i>class_f_in_bytes</i>	(Optional) Class f bytes
<i>class_2_3_in_frames</i>	(Optional) Class 2/3 Frames
<i>in_discards</i>	(Optional) Discards
<i>in_errors</i>	(Optional) Errors
<i>in_crc_fcs</i>	(Optional) CRC/FCS
<i>in_unknown_class</i>	(Optional) Unknown Class

<i>in_too_long</i>	(Optional) Frames too long
<i>in_too_short</i>	(Optional) Frames too short
<i>out_frames</i>	(Optional) Frames
<i>out_bytes</i>	(Optional) Bytes
<i>class_2_out_frames</i>	(Optional) Class 2 frames
<i>class_2_out_bytes</i>	(Optional) Class 2 bytes
<i>class_3_out_frames</i>	(Optional) Class 3 frames
<i>class_3_out_bytes</i>	(Optional) Class 3 bytes
<i>class_f_out_frames</i>	(Optional) Class f frames
<i>class_f_out_bytes</i>	(Optional) Class f bytes
<i>class_2_3_out_frames</i>	(Optional) Class 2/3 frames
<i>out_discards</i>	(Optional) Discards
<i>out_errors</i>	(Optional) Errors
<i>out_crc_fcs</i>	(Optional) CRC/FCS
<i>timeout_discards</i>	(Optional) Timeout Discards
<i>credit_loss</i>	(Optional) Credit Loss
<i>input_ols</i>	(Optional) input ols
<i>input_lrr</i>	(Optional) input LRR
<i>input_nos</i>	(Optional) input NOS
<i>input_loop_inits</i>	(Optional) input loop inits
<i>output_ols</i>	(Optional) output OLS
<i>output_lrr</i>	(Optional) output LRR
<i>output_nos</i>	(Optional) output NOS
<i>output_loop_inits</i>	(Optional) output loop inits
<i>link_faliures</i>	(Optional) link faliures
<i>sync_loss</i>	(Optional) Sync loss
<i>signal_loss</i>	(Optional) Signal loss
<i>b2b_transmit</i>	(Optional) B2B transmit
<i>b2b_receive</i>	(Optional) B2B receive

<i>txwait</i>	(Optional) TxWait
<i>tx_credit_unavbl</i>	(Optional) Tx credit unavliable
<i>b2b_receive_remain</i>	(Optional) B2B receive remain
<i>b2b_transmit_remain</i>	(Optional) B2B transmit remain
<i>low_priority_b2b_remain</i>	(Optional) Low priority B2B credit remaining
<i>off_seq_err_rcvd</i>	(Optional) Offset Sequence Error Received
<i>broadcast_frames</i>	(Optional) Broadcast frames
<i>errors</i>	(Optional) Errors
<i>queue_drops</i>	(Optional) Queue drops
<i>if_down_drops</i>	(Optional) If down drops
<i>red_drops</i>	(Optional) Red drops
<i>bad_ether_type_drops</i>	(Optional) Bad ether type drops
<i>bad_protocol_drops</i>	(Optional) Bad Protocol Drops
<i>arp_drops</i>	(Optional) Arp Drops
<i>timestamp_error</i>	(Optional) Timestamp Error
<i>reass_frames</i>	(Optional) Reass Frames
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit
<i>time_last_cleared</i>	(Optional) Last time cleared

**Command Mode**

- /exec

## show interface counters detailed

```
show interface <ifmgmt_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ][ <vdc_lvl_in_bytes> ][ <vdc_lvl_in_ucast> ][ <vdc_lvl_in_mcast> ][
<vdc_lvl_in_bcast> ][ <vdc_lvl_in_bps> ][ <vdc_lvl_in_pps> ][ <vdc_lvl_in_avg_pkts> ][
<vdc_lvl_in_avg_bytes> ][ <vdc_lvl_out_pkts> ][ <vdc_lvl_out_bytes> ][ <vdc_lvl_out_ucast> ][
<vdc_lvl_out_mcast> ][ <vdc_lvl_out_bcast> ][ <vdc_lvl_out_bps> ][ <vdc_lvl_out_pps> ][
<vdc_lvl_out_avg_pkts> ][ <vdc_lvl_out_avg_bytes> ][ <mgmt_in_pkts> ][ <mgmt_in_bytes> ][
<mgmt_in_mcast> ][ <mgmt_in_compressed> ][ <mgmt_in_errors> ][ <mgmt_in_frame> ][
<mgmt_in_overrun> ][ <mgmt_in_fifo> ][ <mgmt_out_pkts> ][ <mgmt_out_bytes> ][
<mgmt_out_underruns> ][ <mgmt_out_errors> ][ <mgmt_out_collisions> ][ <mgmt_out_fifo> ][
<mgmt_out_carrier> ][ <mgmt_align_err> ][ <mgmt_fcs_err> ][ <mgmt_xmit_err> ][ <mgmt_rcv_err> ][
<mgmt_undersize> ][ <mgmt_outdisc> ][ <mgmt_single_col> ][ <mgmt_multi_col> ][ <mgmt_late_col>
][ <mgmt_excess_col> ][ <mgmt_carri_sen> ][ <mgmt_runs> ][ <mgmt_giants> ][ <mgmt_sqetest_err>
][ <mgmt_deferred_tx> ][ <mgmt_inmactx_err> ][ <mgmt_inmacrx_err> ][ <mgmt_symbol_err> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets

<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard

<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

**Command Mode**

- /exec



## show interface counters detailed

```
show interface <ifloop_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ]
[ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [
<loop_out_underruns> ] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [
<loop_out_carriers> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

### Command Mode

- /exec

## show interface counters detailed

```
show interface <ifeth_ctr_dtl> counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts> ]
] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [
<eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants> ] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64> ]
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outpkts> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [ <eth_outbytes> ] [ <eth_outb64> ] [
<eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [
<eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf> ] [ <eth_runs> ] [
<eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [ <eth_lostcarrier> ] [
<eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr> ] [ <eth_outerr> ] [
<eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [ <eth_multi_coll> ] [
<eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [
<eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost> ]
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ]
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched> ]
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only

<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary

<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes

<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards

<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops

**Command Mode**

- /exec



## show interface counters detailed all

```

show interface <ifeth_ctr_dtl_all> counters detailed all [ snmp ] [ __readonly__ TABLE interface <interface>
[ <rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_ucast_pkts> ] [ <rx_mcast_pkts> ] [ <rx_bcast_pkts> ] [
<rx_octets> ] [ <tx_ucast_pkts> ] [ <tx_mcast_pkts> ] [ <tx_bcast_pkts> ] [ <tx_octets> ] [
<rxtx_pkts_64octets> ] [ <rxtx_pkts_65_127octets> ] [ <rxtx_pkts_128_255octets> ] [
<rxtx_pkts_256_511octets> ] [ <rxtx_pkts_512_1023octets> ] [ <rxtx_pkts_1024_1518octets> ] [
<rxtx_pkts_1519_1548octets> ] [ <rx_trunk_frames> ] [ <tx_trunk_frames> ] [ <rx_drop_events> ] [
<rxtx_giants> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ]
[ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ]
[ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ]
[ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ]
[ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_outrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast> ]
[ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll> ]
[ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127> ]
[ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [
<eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [
<eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost> ]
[ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [
<eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [
<eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ] [
<eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ]

```

### Syntax Description

show	Show running system information
------	---------------------------------

interface	Show interface status and information
<i>ifeth_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_ucast_pkts</i>	(Optional) input unicasts
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_bcast_pkts</i>	(Optional) input broadcasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_ucast_pkts</i>	(Optional) output unicasts
<i>tx_mcast_pkts</i>	(Optional) output multicasts
<i>tx_bcast_pkts</i>	(Optional) output broadcasts
<i>tx_octets</i>	(Optional) output bytes
<i>rxtx_pkts_64octets</i>	(Optional) all pkts between 0 and 64 bytes
<i>rxtx_pkts_65_127octets</i>	(Optional) all pkts between 65 and 127 bytes
<i>rxtx_pkts_128_255octets</i>	(Optional) all pkts between 128 and 255 bytes
<i>rxtx_pkts_256_511octets</i>	(Optional) all pkts between 256 and 511 bytes
<i>rxtx_pkts_512_1023octets</i>	(Optional) all pkts between 512 and 1023 bytes
<i>rxtx_pkts_1024_1518octets</i>	(Optional) all pkts between 1024 and 1518 bytes
<i>rxtx_pkts_1519_1548octets</i>	(Optional) all pkts between 1519 and 1548 bytes
<i>rx_trunk_frames</i>	(Optional) input trunk pkts
<i>tx_trunk_frames</i>	(Optional) output trunk pkts
<i>rx_drop_events</i>	(Optional) dropped pkts

<i>rx_tx_giants</i>	(Optional) giants
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary

## show interface counters detailed all

<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes

<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts

<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers

<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_squetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts

<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter

**Command Mode**

- /exec



# show interface counters detailed all

```
show interface <ifid_ctr_dtl_all> counters detailed all [ snmp ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
snmp	(Optional) Show SNMP MIB values

## Command Mode

- /exec

## show interface counters detailed all

```
show interface <ifmgmt_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [
<vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_in_avg_bytes> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [
<vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [
<vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [
<mgmt_in_mcast> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_in_errors> ] [ <mgmt_out_errors> ] [
<mgmt_in_fifo> ] [ <mgmt_out_fifo> ] [ <mgmt_in_compressed> ] [ <mgmt_in_frame> ] [
<mgmt_in_overrun> ] [ <mgmt_out_underruns> ] [ <mgmt_out_collisions> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col> ] [ <mgmt_excess_col> ] [
<mgmt_carri_sen> ] [ <mgmt_runts> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx> ] [
<mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes

<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize

<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

**Command Mode**

- /exec

## show interface counters detailed all

```
show interface <ifloop_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_mcast_pkts> ] [ <rx_octets> ] [ <tx_octets> ] [ <loop_in_pkts> ]
[ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_octets</i>	(Optional) output bytes
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets

<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

**Command Mode**

- /exec

## show interface counters detailed all

```
show interface <ifrange> counters detailed all [ snmp ] [ __readonly__ TABLE_interface <interface> [
<svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [ <svi_routed_bytes_out> ] [
<svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [ <svi_mcast_bytes_in> ] [
<svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [ <svi_mcast_bytes_out> ] [
<svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [ <svi_ipv4_ucast_pkts_out> ] [
<svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [ <svi_ipv4_mcast_bytes_in> ] [
<svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [ <svi_ipv6_ucast_pkts_in> ] [
<svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [ <svi_ipv6_ucast_bytes_out> ] [
<svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [ <svi_ipv6_mcast_pkts_out> ] [
<svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [ <svi_average_input_packets> ] [
<svi_average_output_bits> ] [ <svi_average_output_packets> ] [ <svi_rate_in_mins> ] [
<svi_time_last_cleared> ] [ <svi_tx_load> ] [ <svi_rx_load> ] [ <svi_reliability> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability

### Command Mode

- /exec

## show interface counters detailed cached

```
show interface <ifeth_ctr_dtl_all> counters detailed cached [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ][ <tx_total_pkts> ][ <rx_ucast_pkts> ][ <rx_mcast_pkts> ][ <rx_bcast_pkts> ][ <rx_octets> ]
][ <tx_ucast_pkts> ][ <tx_mcast_pkts> ][ <tx_bcast_pkts> ][ <tx_octets> ][ <rxtx_pkts_64octets> ][
<rxtx_pkts_65_127octets> ][ <rxtx_pkts_128_255octets> ][ <rxtx_pkts_256_511octets> ][
<rxtx_pkts_512_1023octets> ][ <rxtx_pkts_1024_1518octets> ][ <rxtx_pkts_1519_1548octets> ][
<rx_trunk_frames> ][ <tx_trunk_frames> ][ <rx_drop_events> ][ <rxtx_giants> ][ <eth_load_interval1_rx>
][ <eth_inrate1_bits> ][ <eth_inrate1_pkts> ][ <eth_load_interval1_tx> ][ <eth_outrate1_bits> ][
<eth_outrate1_pkts> ][ <eth_inrate1_summary_bits> ][ <eth_inrate1_summary_pkts> ][
<eth_outrate1_summary_bits> ][ <eth_outrate1_summary_pkts> ][ <eth_load_interval2_rx> ][
<eth_inrate2_bits> ][ <eth_inrate2_pkts> ][ <eth_load_interval2_tx> ][ <eth_outrate2_bits> ][
<eth_outrate2_pkts> ][ <eth_inrate2_summary_bits> ][ <eth_inrate2_summary_pkts> ][
<eth_outrate2_summary_bits> ][ <eth_outrate2_summary_pkts> ][ <eth_load_interval3_rx> ][
<eth_inrate3_bits> ][ <eth_inrate3_pkts> ][ <eth_load_interval3_tx> ][ <eth_outrate3_bits> ][
<eth_outrate3_pkts> ][ <eth_inrate3_summary_bits> ][ <eth_inrate3_summary_pkts> ][
<eth_outrate3_summary_bits> ][ <eth_outrate3_summary_pkts> ][ <eth_l2_ucastpkts> ][ <eth_l2_ucastbytes>
][ <eth_l2_mcastpkts> ][ <eth_l2_mcastbytes> ][ <eth_l2_bcastpkts> ][ <eth_l2_bcastbytes> ][
<eth_l3in_ucastpkts> ][ <eth_l3in_ucastbytes> ][ <eth_l3in_mcastpkts> ][ <eth_l3in_mcastbytes> ][
<eth_l3in_bcastpkts> ][ <eth_l3in_bcastbytes> ][ <eth_l3out_ucastpkts> ][ <eth_l3out_ucastbytes> ][
<eth_l3out_mcastpkts> ][ <eth_l3out_mcastbytes> ][ <eth_l3out_bcastpkts> ][ <eth_l3out_bcastbytes> ][
<eth_l3in_routed_pkts> ][ <eth_l3in_routed_bytes> ][ <eth_l3out_routed_pkts> ][ <eth_l3out_routed_bytes>
][ <eth_l3avg1_inbytes> ][ <eth_l3avg1_inpkts> ][ <eth_l3avg1_outbytes> ][ <eth_l3avg1_outpkts> ][
<eth_l3avg2_inbytes> ][ <eth_l3avg2_inpkts> ][ <eth_l3avg2_outbytes> ][ <eth_l3avg2_outpkts> ][
<eth_l3avg3_inbytes> ][ <eth_l3avg3_inpkts> ][ <eth_l3avg3_outbytes> ][ <eth_l3avg3_outpkts> ][
<eth_inpkts> ][ <eth_inbytes> ][ <eth_nobuf> ][ <eth_inbcast> ][ <eth_inmcast> ][ <eth_inucast> ][
<eth_ingiants> ][ <eth_ipmcast> ][ <eth_inhw_switched> ][ <eth_insw_switched> ][ <eth_runts> ][
<eth_storm_supp> ][ <eth_throtles> ][ <eth_inerr> ][ <eth_crc> ][ <eth_ecc> ][ <eth_frame> ][
<eth_outrun> ][ <eth_ignored> ][ <eth_watchdog> ][ <eth_outbcast> ][ <eth_outmcast> ][ <eth_outucast>
][ <eth_outgiants> ][ <eth_inpause> ][ <eth_dribble> ][ <eth_in_ifdown_drops> ][ <eth_bad_eth> ][
<eth_bad_proto> ][ <eth_outpkts> ][ <eth_outbytes> ][ <eth_underrun> ][ <eth_outhw_switched> ][
<eth_outsw_switched> ][ <eth_outerr> ][ <eth_coll> ][ <eth_resets> ][ <eth_babbles> ][ <eth_latecoll> ]
[ <eth_deferred> ][ <eth_lostcarrier> ][ <eth_nocarrier> ][ <eth_outpause> ][ <eth_buffail> ][
<eth_bufswapped> ][ <eth_arpdrops> ][ <eth_out_ifdown_drops> ][ <eth_single_coll> ][ <eth_multi_coll>
][ <eth_excess_coll> ][ <eth_jabbers> ][ <eth_shortframe> ][ <eth_indiscard> ][ <eth_bad_encap> ][
<eth_outcrc> ][ <eth_symbol> ][ <eth_out_drops> ][ <eth_sqetest> ][ <eth_inb64> ][ <eth_inb65_127>
][ <eth_inb128_255> ][ <eth_inb256_511> ][ <eth_inb512_1023> ][ <eth_inb1024_1518> ][
<eth_inb1519_1548> ][ <eth_intrunk> ][ <eth_outb64> ][ <eth_outb65_127> ][ <eth_outb128_255> ][
<eth_outb256_511> ][ <eth_outb512_1023> ][ <eth_outb1024_1518> ][ <eth_outb1519_1548> ][
<eth_outtrunk> ][ <eth_bpdu_outlost> ][ <eth_cos0_outlost> ][ <eth_cos1_outlost> ][ <eth_cos2_outlost>
][ <eth_cos3_outlost> ][ <eth_cos4_outlost> ][ <eth_cos5_outlost> ][ <eth_cos6_outlost> ][
<eth_cos7_outlost> ][ <eth_fcoe_in_pkts> ][ <eth_fcoe_in_octets> ][ <eth_fcoe_out_pkts> ][
<eth_fcoe_out_octets> ][ <eth_nfcoe_in_pkts> ][ <eth_nfcoe_in_octets> ][ <eth_nfcoe_out_pkts> ][
<eth_nfcoe_out_octets> ][ <eth_eee_atx_lpi_msec> ][ <eth_eee_arcv_lpi_msec> ][
<eth_eee_atx_lpi_transitions> ][ <eth_eee_arcv_lpi_transitions> ][ <eth_phy_ber_count> ][
<eth_phy_errblks_count> ] ]
```

### Syntax Description

show	Show running system information
------	---------------------------------



interface	Show interface status and information
<i>ifeth_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
cached	everything cached
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_ucast_pkts</i>	(Optional) input unicasts
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_bcast_pkts</i>	(Optional) input broadcasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_ucast_pkts</i>	(Optional) output unicasts
<i>tx_mcast_pkts</i>	(Optional) output multicasts
<i>tx_bcast_pkts</i>	(Optional) output broadcasts
<i>tx_octets</i>	(Optional) output bytes
<i>rxtx_pkts_64octets</i>	(Optional) all pkts between 0 and 64 bytes
<i>rxtx_pkts_65_127octets</i>	(Optional) all pkts between 65 and 127 bytes
<i>rxtx_pkts_128_255octets</i>	(Optional) all pkts between 128 and 255 bytes
<i>rxtx_pkts_256_511octets</i>	(Optional) all pkts between 256 and 511 bytes
<i>rxtx_pkts_512_1023octets</i>	(Optional) all pkts between 512 and 1023 bytes
<i>rxtx_pkts_1024_1518octets</i>	(Optional) all pkts between 1024 and 1518 bytes
<i>rxtx_pkts_1519_1548octets</i>	(Optional) all pkts between 1519 and 1548 bytes
<i>rx_trunk_frames</i>	(Optional) input trunk pkts
<i>tx_trunk_frames</i>	(Optional) output trunk pkts
<i>rx_drop_events</i>	(Optional) dropped pkts
<i>rxtx_giants</i>	(Optional) giants

<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary

<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts

## show interface counters detailed cached

<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts

<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames

## show interface counters detailed cached

<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts

<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter

**Command Mode**

- /exec

## show interface counters details

```
show interface <ifid_ctr_det> counters details [ __readonly__ TABLE_interface <interface> [ <fcoe_in_pkts>
] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_det</i>	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets

### Command Mode

- /exec



## show interface counters details

```
show interface <ifid_ctrs_det2> counters details [ __readonly__ TABLE_ifid_counters [ <sfp> <in_frames>
<in_bytes> <class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames>
<class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd>
<class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards>
<class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans>
<class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames>
<class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd>
<broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures>
<sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err>
<link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short>
<frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd>
<link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort>
<unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [
<in_link_ser_req_faliures> ] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err>
<f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued>
[ <fec_corrected> ] [ <fec_uncorrected> ] ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctrs_det2</i>	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail
<u>__readonly__</u>	(Optional)
TABLE_ifid_counters	(Optional) show interface counters
<i>sfp</i>	(Optional) SFP
<i>in_frames</i>	(Optional) in frames
<i>in_bytes</i>	(Optional) in bytes
<i>class_2_frames</i>	(Optional) Class 2 frames
<i>class_2_in_bytes</i>	(Optional) Class 2 bytes received
<i>class_2_in_discards</i>	(Optional) Class 2 discards received
<i>class_2_in_f_bsy_frames</i>	(Optional) Class 2 F_BSY frames received
<i>class_2_in_f_rgt_frames</i>	(Optional) Class 2 F_RGT frames
<i>class_2_in_port_reject_frames</i>	(Optional) Class 2 port reject frames
<i>class_3_frames</i>	(Optional) Class 3 frames

<i>class_3_bytes_rcv</i>	(Optional) Class 3 bytes received
<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes_rcv</i>	(Optional) Class F bytes received
<i>class_f_in_discards</i>	(Optional) Class F in discards
<i>class_f_errors_rcvd</i>	(Optional) Class F errors received
<i>class_f_out_discards</i>	(Optional) Class F out discards
<i>class_f_errors_trans</i>	(Optional) Class F errors transmitted
<i>out_frames</i>	(Optional) Out frames
<i>out_bytes</i>	(Optional) Out bytes
<i>class_2_out_frames</i>	(Optional) Class 2 frames transmitted
<i>class_2_bytes_trans</i>	(Optional) Class 2 bytes transmitted
<i>class_3_out_frames</i>	(Optional) Class 3 frames transmitted
<i>class_3_bytes_trans</i>	(Optional) Class 3 bytes transmitted
<i>class_3_out_discards</i>	(Optional) Class 3 out discards
<i>class_f_out_frames</i>	(Optional) Class F out frames
<i>class_f_bytes_trans</i>	(Optional) Class F bytes transmitted
<i>class_f_discards</i>	(Optional) Class F discards
<i>multicast_rcvd</i>	(Optional) Multicast received
<i>multicast_trans</i>	(Optional) Multicast transmitted
<i>broadcast_rcvd</i>	(Optional) Broadcast received
<i>broadcast_trans</i>	(Optional) Broadcast transmitted
<i>unicast_rcvd</i>	(Optional) Unicast received
<i>unicast_trans</i>	(Optional) Unicast transmitted
<i>timeout_discards</i>	(Optional) timeout discards
<i>credit_loss</i>	(Optional) credit loss
<i>link_faliures</i>	(Optional) Link faliures
<i>sync_loss</i>	(Optional) Sync Loss
<i>signal_loss</i>	(Optional) Signal Loss
<i>prm_seq_pro_err</i>	(Optional) primitive sequence protocol errors

<i>inv_trans_err</i>	(Optional) invalid transmission errors
<i>inv_crc</i>	(Optional) Invalid crc
<i>delim_err</i>	(Optional) Delimiter Errors
<i>addr_iden_err</i>	(Optional) Address Identification errors
<i>link_reset_rcvd</i>	(Optional) link reset received
<i>link_reset_trans</i>	(Optional) link reset transmitted
<i>off_seq_err_rcvd</i>	(Optional) Offline sequence error received
<i>off_seq_err_trans</i>	(Optional) Offline sequence Error transmitted
<i>frames_rcvd_short</i>	(Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error
<i>frames_rcvd_long</i>	(Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error
<i>txwait</i>	(Optional) TXwait
<i>frames_rcvd_greater</i>	(Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI
<i>frame_rcvd_short_header</i>	(Optional) frames received with length less than the minimum indicated by the frame header
<i>link_reset_resp_rcvd</i>	(Optional) Link reset responses received
<i>link_reset_resp_trans</i>	(Optional) Link reset responses transmitted
<i>non_oper_seq_rcvd</i>	(Optional) Non operational sequence received
<i>non_oper_seq_trans</i>	(Optional) Non operational sequence transmitted
<i>frag_frames_rcvd</i>	(Optional) fragmented frames received
<i>frames_eof_abort</i>	(Optional) frames EOF abort
<i>unknown_class_frames_rcvd</i>	(Optional) unknown class frames received
<i>8b10b_disparity_err</i>	(Optional) 8b10b disparity errors
<i>frames_discard</i>	(Optional) frames discard
<i>ex_link_param_sw_fab</i>	(Optional) external link parameters switch fabric
<i>in_link_ser_req_faliures</i>	(Optional) internal link serial request faliures
<i>b2b_credits_transmit</i>	(Optional) B2B credits transmit
<i>b2b_credits_receive</i>	(Optional) B2B credits receive

<i>eisl_frames</i>	(Optional) EISL frames
<i>framing_err</i>	(Optional) Framing Error
<i>f8_lip_seq_err_rcvd</i>	(Optional) f8 LIP sequence error received
<i>f8_lip_seq_err_issued</i>	(Optional) f8 LIP sequence error issued
<i>non_f8_lip_seq_err_rcvd</i>	(Optional) non f8 LIP sequence error received
<i>non_f8_lip_seq_err_issued</i>	(Optional) non f8 LIP sequence error issued
<i>fec_corrected</i>	(Optional) fec corrected blocks
<i>fec_uncorrected</i>	(Optional) fec uncorrected blocks

**Command Mode**

- /exec

## show interface counters errors

```
show interface <ifeth_ctr_errs> counters errors [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters
snmp	(Optional) Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants
<i>eth_sqetest_err</i>	(Optional) SQETest error

<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error
<i>eth_indisc</i>	(Optional) In discards

**Command Mode**

- /exec

## show interface counters errors

```
show interface counters errors [ module <module> ] [ non-zero ] [ __readonly__ TABLE_interface <interface>
[ <eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runs> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
errors	Show interface error counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
non-zero	(Optional) Display only the non-zero error values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runs</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants

<i>eth_sqetest_err</i>	(Optional) SQETest error
<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error
<i>eth_indisc</i>	(Optional) In discards

**Command Mode**

- /exec



# show interface counters errors

show interface <loop\_ctr\_errs> counters errors

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>loop_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters

## Command Mode

- /exec

## show interface counters snmp

```
show interface counters snmp [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ]
[ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
snmp	Show SNMP MIB values
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts

<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

**Command Mode**

- /exec

## show interface counters snmp

```
show interface <ifeth_ctr> counters snmp [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inbytes>
] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters <interface_tx> [ <eth_outbytes>
] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ]
[ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

**Command Mode**

- /exec

## show interface counters storm-control

```
show interface counters storm-control [ module <module> ] [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
storm-control	Show interface storm-control counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

### Command Mode

- /exec

## show interface counters storm-control

```
show interface <ifeth_ctr_stm_ctrl> counters storm-control [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_stm_ctrl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
storm-control	Show interface storm-control counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

### Command Mode

- /exec

## show interface counters table

```
show interface counters table [ __readonly__ { TABLE_counters <interface> <desc> <eth_load_intvl>
<eth_inrate_mbps> <eth_inrate_pcmt> <eth_outrate_mbps> <eth_outrate_pcmt> } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
__readonly__	(Optional) Read Only
TABLE_counters	(Optional) Counters table
<i>interface</i>	(Optional) Interface
<i>desc</i>	(Optional) Interface description
<i>eth_load_intvl</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate_mbps</i>	(Optional) interval 1 input rate mbps
<i>eth_inrate_pcmt</i>	(Optional) interval 1 input rate in %
<i>eth_outrate_mbps</i>	(Optional) interval 1 output rate mbps
<i>eth_outrate_pcmt</i>	(Optional) interval 1 output rate in %

### Command Mode

- /exec



## show interface counters table verbose

```
show interface counters table verbose [ __readonly__ { TABLE_Err_verbose <interface> <overrun> <underrun>
<Etype_Drop> <Proto_Drop> <If_Down_Drop> <RX_discard> <TX_discard> <CRC> <RX_Err> <TX_Err>
} ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	show errors counts after counters
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_Err_verbose</i>	(Optional) verbose errors table
<i>interface</i>	(Optional) Interface
<i>overrun</i>	(Optional) overrun
<i>underrun</i>	(Optional) underruns
<i>Etype_Drop</i>	(Optional) bad ether type drop
<i>Proto_Drop</i>	(Optional) bad protocol drops
<i>If_Down_Drop</i>	(Optional) Input if-down drops
<i>RX_discard</i>	(Optional) discards
<i>TX_discard</i>	(Optional) output discard
<i>CRC</i>	(Optional) CRC
<i>RX_Err</i>	(Optional) input errors
<i>TX_Err</i>	(Optional) output errors

### Command Mode

- /exec

## show interface counters trunk

```
show interface <ifeth_ctr_trnk> counters trunk [ __readonly__ TABLE_interface <interface> [
<eth_trunk_frames_tx> ] [ <eth_trunk_frames_rx> ] [ <eth_wrong_encap> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_trnk</i>	Enter interface type and number in module/slot format
counters	Show interface counters
trunk	Show interface trunk counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>eth_trunk_frames_tx</i>	(Optional) Trunk frame transmitted
<i>eth_trunk_frames_rx</i>	(Optional) Trunk frames received
<i>eth_wrong_encap</i>	(Optional) Wrong encapsulation

### Command Mode

- /exec

# show interface debounce

```
show interface debounce [ __readonly__ TABLE_interface <interface> <debounce> <debounce_val> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

## Command Mode

- /exec

# show interface debounce

```
show interface <ifeth_dbnc> debounce [ __readonly__ TABLE_interface <interface> <debounce>
<debounce_val> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_dbnc</i>	Enter interface type and number in module/slot format
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

## Command Mode

- /exec

# show interface description

```
show interface <ifid> description [ __readonly__ <start> <if_index> <LINE> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
description	Interface specific description
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>LINE</i>	(Optional) Description

## Command Mode

- /exec

## show interface description

show interface <ifid\_desc1> description [ \_\_readonly\_\_ TABLE\_interface <interface\_fc> [ <desc\_fc> ] ]

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_desc1</i>	Enter interface type and number in module/slot format
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface_fc</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>desc_fc</i>	(Optional) Description

### Command Mode

- /exec

# show interface description

```
show interface description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

## Command Mode

- /exec

## show interface description

```
show interface <ifid_mgmt_loop> description [ __readonly__ TABLE_interface <interface> [ <state> ] [
<protocol> ] [ <desc> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_mgmt_loop</i>	Enter interface type and number in module/slot format
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

### Command Mode

- /exec



# show interface description

```
show interface <ifid_eth> description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

## Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifid_eth</i>	Enter interface type and number in module/slot format
<code>description</code>	Show interface description
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

## Command Mode

- /exec

# show interface description

```
show interface <iftun_desc> description [ __readonly__ TABLE_interface <interface> <state> <protocol>
<desc> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

## Command Mode

- /exec

# show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

## Command Mode

- /exec

# show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

## Command Mode

- /exec

## show interface detail-counters

```
show interface detail-counters [ __readonly__ [ { TABLE_counters <sfp> <in_frames> <in_bytes>
<class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames>
<class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd>
<class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards>
<class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans>
<class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames>
<class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd>
<broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures>
<sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err>
<link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short>
<frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd>
<link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort>
<unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [
<in_link_ser_req_faliures> ] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err>
<f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued>
[ <fec_corrected> ] [ <fec_uncorrected> ] } ] [ { TABLE_interface <interface> [ <fcoe_in_pkts> ] [
<fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ] } ] ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
detail-counters	Show interface counters in detail
__readonly__	(Optional)
TABLE_counters	(Optional) show interface counters
sfp	(Optional) SFP
in_frames	(Optional) in frames
in_bytes	(Optional) in bytes
class_2_frames	(Optional) Class 2 frames
class_2_in_bytes	(Optional) Class 2 bytes received
class_2_in_discards	(Optional) Class 2 discards received
class_2_in_f_bsy_frames	(Optional) Class 2 F_BSY frames received
class_2_in_f_rgt_frames	(Optional) Class 2 F_RGT frames
class_2_in_port_reject_frames	(Optional) Class 2 port reject frames
class_3_frames	(Optional) Class 3 frames
class_3_bytes_rcvd	(Optional) Class 3 bytes received

<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes_rcvd</i>	(Optional) Class F bytes received
<i>class_f_in_discards</i>	(Optional) Class F in discards
<i>class_f_errors_rcvd</i>	(Optional) Class F errors received
<i>class_f_out_discards</i>	(Optional) Class F out discards
<i>class_f_errors_trans</i>	(Optional) Class F errors transmitted
<i>out_frames</i>	(Optional) Out frames
<i>out_bytes</i>	(Optional) Out bytes
<i>class_2_out_frames</i>	(Optional) Class 2 frames transmitted
<i>class_2_bytes_trans</i>	(Optional) Class 2 bytes transmitted
<i>class_3_out_frames</i>	(Optional) Class 3 frames transmitted
<i>class_3_bytes_trans</i>	(Optional) Class 3 bytes transmitted
<i>class_3_out_discards</i>	(Optional) Class 3 out discards
<i>class_f_out_frames</i>	(Optional) Class F out frames
<i>class_f_bytes_trans</i>	(Optional) Class F bytes transmitted
<i>class_f_discards</i>	(Optional) Class F discards
<i>multicast_rcvd</i>	(Optional) Multicast received
<i>multicast_trans</i>	(Optional) Multicast transmitted
<i>broadcast_rcvd</i>	(Optional) Broadcast received
<i>broadcast_trans</i>	(Optional) Broadcast transmitted
<i>unicast_rcvd</i>	(Optional) Unicast received
<i>unicast_trans</i>	(Optional) Unicast transmitted
<i>timeout_discards</i>	(Optional) timeout discards
<i>credit_loss</i>	(Optional) credit loss
<i>link_faliures</i>	(Optional) Link faliures
<i>sync_loss</i>	(Optional) Sync Loss
<i>signal_loss</i>	(Optional) Signal Loss
<i>prm_seq_pro_err</i>	(Optional) primitive sequence protocol errors
<i>inv_trans_err</i>	(Optional) invaid transmission errors

<i>inv_crc</i>	(Optional) Invalid crc
<i>delim_err</i>	(Optional) Delimiter Errors
<i>addr_iden_err</i>	(Optional) Address Identification errors
<i>link_reset_rcvd</i>	(Optional) link reset received
<i>link_reset_trans</i>	(Optional) link reset transmitted
<i>off_seq_err_rcvd</i>	(Optional) Offline sequence error received
<i>off_seq_err_trans</i>	(Optional) Offline sequence Error transmitted
<i>frames_rcvd_short</i>	(Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error
<i>frames_rcvd_long</i>	(Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error
<i>txwait</i>	(Optional) TXwait
<i>frames_rcvd_greater</i>	(Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI
<i>frame_rcvd_short_header</i>	(Optional) frames received with length less than the minimum indicated by the frame header
<i>link_reset_resp_rcvd</i>	(Optional) Link reset responses received
<i>link_reset_resp_trans</i>	(Optional) Link reset responses transmitted
<i>non_oper_seq_rcvd</i>	(Optional) Non operational sequence received
<i>non_oper_seq_trans</i>	(Optional) Non operational sequence transmitted
<i>frag_frames_rcvd</i>	(Optional) fragmented frames received
<i>frames_eof_abort</i>	(Optional) frames EOF abort
<i>unknown_class_frames_rcvd</i>	(Optional) unknown class frames received
<i>8b10b_disparity_err</i>	(Optional) 8b10b disparity errors
<i>frames_discard</i>	(Optional) frames discard
<i>ex_link_param_sw_fab</i>	(Optional) external link parameters switch fabric
<i>in_link_ser_req_faliures</i>	(Optional) internal link serial request faliures
<i>b2b_credits_transmit</i>	(Optional) B2B credits transmit
<i>b2b_credits_receive</i>	(Optional) B2B credits receive
<i>eisl_frames</i>	(Optional) EISL frames

<i>framing_err</i>	(Optional) Framing Error
<i>f8_lip_seq_err_rcvd</i>	(Optional) f8 LIP sequence error received
<i>f8_lip_seq_err_issued</i>	(Optional) f8 LIP sequence error issued
<i>non_f8_lip_seq_err_rcvd</i>	(Optional) non f8 LIP sequence error received
<i>non_f8_lip_seq_err_issued</i>	(Optional) non f8 LIP sequence error issued
<i>fec_corrected</i>	(Optional) fec corrected blocks
<i>fec_uncorrected</i>	(Optional) fec uncorrected blocks
TABLE_interface	(Optional) interface
<i>interface</i>	(Optional) interface
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets

**Command Mode**

- /exec



## show interface fcoe

```
show interface <ifeth_fcoe> fcoe [ __readonly__ TABLE_interface <interface> [ <state> ] [ <vfc> ] [ <vfc_bound> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fcoe</i>	Enter interface type and number in module/slot format
fcoe	Show interface fcoe information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>state</i>	(Optional) State of interface
<i>vfc</i>	(Optional) VFC
<i>vfc_bound</i>	(Optional) Binding information

### Command Mode

- /exec

# show interface fec

```
show interface fec [ __readonly__ TABLE_interface <interface> [ <ifindex-hex> ] [ <admin_port_fec> ] [ <oper_port_fec> ] [ <state> ] [ <speed> ] [ <type> ] ]
```

## Syntax Description

<i>show</i>	Show running system information
<i>interface</i>	Show interface status and information
<i>fec</i>	Show interface fec list
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>ifindex-hex</i>	(Optional) If Index in Hex
<i>admin_port_fec</i>	(Optional) Admin port fec state
<i>oper_port_fec</i>	(Optional) Oper port fec state
<i>state</i>	(Optional) Interface state
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

## Command Mode

- /exec

# show interface flowcontrol

```
show interface <ifeth_fl_ctrl> flowcontrol [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fl_ctrl</i>	Enter interface type and number in module/slot format
flowcontrol	Show interface flowcontrol information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

## Command Mode

- /exec

## show interface flowcontrol

```
show interface flowcontrol [ module <module> ] [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <rcv_admin> <rcv_oper> <rxpause> <txpause> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
flowcontrol	Show interface flowcontrol information
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>rcv_admin</i>	(Optional) Receive flowcontrol admin
<i>rcv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

### Command Mode

- /exec

# show interface hardware-mappings

show interface hardware-mappings [ json ]

## Syntax Description

show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces
json	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec

## show interface mac-address

```
show interface <ifid_macaddr> mac-address [ __readonly__ TABLE_interface <interface> <address>
<bia_address> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_macaddr</i>	Enter interface type and number in module/slot format
mac-address	Show interface MAC address
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In MAC Address

### Command Mode

- /exec

# show interface mac-address

show interface mac-address [ *\_\_readonly\_\_* *TABLE\_interface* <interface> <address> <bia\_address> ]

## Syntax Description

show	Show running system information
interface	Show interface status and information
mac-address	Show interface MAC address
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In MAC Address

## Command Mode

- /exec

## show interface priority-flow-control

```
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ] [ __readonly__ [
TABLE_pfc_interface <if_name_str> <admin> <oper> [ <cos-list> ] <rx-stats> <tx-stats> [ <rx_ppp_cos_0>
] [ <rx_ppp_cos_1> ] [ <rx_ppp_cos_2> ] [ <rx_ppp_cos_3> ] [ <rx_ppp_cos_4> ] [ <rx_ppp_cos_5> ] [
<rx_ppp_cos_6> ] [ <rx_ppp_cos_7> ] [ <tx_ppp_cos_0> ] [ <tx_ppp_cos_1> ] [ <tx_ppp_cos_2> ] [
<tx_ppp_cos_3> ] [ <tx_ppp_cos_4> ] [ <tx_ppp_cos_5> ] [ <tx_ppp_cos_6> ] [ <tx_ppp_cos_7> ] ] ]
```

### Syntax Description

show	commands to display
interface	Interface for displaying pfc information
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
priority-flow-control	Show interface PFC information
detail	(Optional) Show detailed per priority Tx/Rx PFC statistics
__readonly__	(Optional)
<i>if_name_str</i>	(Optional) interface name
TABLE_pfc_interface	(Optional) PFC information of an interface
<i>admin</i>	(Optional) PFC admin
<i>oper</i>	(Optional) PFC oper
<i>cos-list</i>	(Optional) List of class-of-service values

### Command Mode

- /exec



## show interface private-vlan mapping

```
show interface [ <if> ] private-vlan mapping [ __readonly__ [ <output-filtered> ] [ { TABLE_interf_mapp
<interface-id> [ <secondary-vlan> + ] [ <pvlan-type> } ] ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>if</i>	(Optional) Vlan Interface number
private-vlan	Show interface private vlan information
mapping	Show interface private vlan information
<i>__readonly__</i>	(Optional) Read Only
<i>output-filtered</i>	(Optional) the output is filtered for specified ifs
TABLE_interf_mapp	(Optional) Pvlan interface mapping table
<i>interface-id</i>	(Optional) Interface
<i>secondary-vlan</i>	(Optional) Secondary Vlan
<i>pvlan-type</i>	(Optional) PVLAN Type

### Command Mode

- /exec

## show interface pruning

```
show interface pruning [ __readonly__ <start> { TABLE_interface_pruning1 <if_index1> <rx_join> } {
TABLE_interface_pruning2 <if_index2> <cur_join> } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
pruning	Show interface trunk VTP pruning information
__readonly__	(Optional) Read Only
start	(Optional) Start
TABLE_interface_pruning1	(Optional) Interface pruning information in table format
if_index1	(Optional) Trunk
rx_join	(Optional) Vlans pruned for lack of request by neighbor
TABLE_interface_pruning2	(Optional) Interface pruning information in table format
if_index2	(Optional) Trunk
cur_join	(Optional) Vlan traffic requested of neighbor

### Command Mode

- /exec

## show interface snmp-ifindex

```
show interface snmp-ifindex [ __readonly__ TABLE_interface <interface> <snmp-ifindex> [ <ifindex-hex> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
snmp-ifindex	Show snmp ifindex list
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>ifindex-hex</i>	(Optional) If Index in Hex
<i>snmp-ifindex</i>	(Optional) If Index in Dec

### Command Mode

- /exec

## show interface status

```
show interface <ifid_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] [ <duplex> ] [ <speed> ] [ <type> ] ]
```

### Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifid_status</i>	Enter interface type and number in module/slot format
<code>status</code>	Show interface line status
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

### Command Mode

- /exec

# show interface status

```
show interface <ifid> status [ __readonly__ <start> <if_index> <admin-state> <line-proto> ]
```

## Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<code>status</code>	Interface status
<code>__readonly__</code>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>admin-state</i>	(Optional)
<i>line-proto</i>	(Optional)

## Command Mode

- /exec

## show interface status

```
show interface status [ down | inactive | module <module> | up | auto-column ] [ __readonly__ TABLE_interface
<interface> [ <name> ] [ <state> ] [ <state_san> ] [ <state_rsn> ] [ <vlan> ] [ <duplex> ] [ <speed> ] [ <type>
] [ <admin_mode> ] [ <vsan> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <oper_speed> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
down	(Optional) Show interface down state
inactive	(Optional) Show interface inactive state
auto-column	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
up	(Optional) Show interface up state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_san</i>	(Optional) SAN Port State
<i>vlan</i>	(Optional) Vlan
<i>vsan</i>	(Optional) Vsan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type
<i>state_rsn</i>	(Optional) Port State Reason
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac

<i>oper_speed</i>	(Optional) speed
<i>admin_mode</i>	(Optional) admin mode

**Command Mode**

- /exec

# show interface status

```
show interface <ifeth_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] <duplex> <speed> [ <type> ] ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_status</i>	Enter interface type and number in module/slot format
status	Show interface line status
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

## Command Mode

- /exec



## show interface status

```
show interface <iftun_status> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name>
<state> <state_rsn> <state_rsn_desc> ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_status</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

### Command Mode

- /exec

# show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

## Command Mode

- /exec

# show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> <admin_state> ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state

## Command Mode

- /exec

## show interface status err-disabled

```
show interface <ifeth_errdis> status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ]
<state> [ <state_rsn> ] [ <state_rsn_desc> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
<i>ifeth_errdis</i>	Enter interface type and number in module/slot format
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

### Command Mode

- /exec

# show interface status err-disabled

```
show interface status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ] <state> [
<state_rsn> ] [ <state_rsn_desc> ] ]
```

## Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

## Command Mode

- /exec

## show interface status err-vlans

```
show interface <ifeth_errvlans> status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] [
{ TABLE_vlan [ <err_vlan> ] [ <err_vlan_status> ] [ <err_vlan_syserr> } ] ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_errvlans</i>	Enter interface type and number in module/slot format
status	Show interface line status
err-vlans	Show errored vlans
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
TABLE_vlan	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

### Command Mode

- /exec

## show interface status err-vlans

```
show interface status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] { TABLE_vlan
<err_vlan> <err_vlan_status> <err_vlan_syserr> } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-vlans	Show errored vlans
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
TABLE_vlan	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

### Command Mode

- /exec

## show interface switchport

```
show interface <ifeth_swch> switchport [ __readonly__ TABLE_interface <interface> <switchport> [
<switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_multicast> ] [
<switchport_block_unicast> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan>
] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [ <voice_vlan>
] [ <voice_vlan_name> ] [ <extended_trust> ] [ <extended_trust_name> ] [ <admin_pvlan_pri_assoc> ] [
<admin_pvlan_sec_assoc> ] [ <admin_pvlan_pri_mapping> ] [ <admin_pvlan_sec_mapping> ] [
<admin_pvlan_trunk_native> ] [ <admin_pvlan_trunk_encap> ] [ <admin_pvlan_trunk_normal> ] [
<admin_pvlan_trunk_private> ] [ <oper_pvlan> ] [ <autostate_mode> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_swch</i>	Enter interface type and number in module/slot format
switchport	Show interface switchport information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>voice_vlan</i>	(Optional) Voice VLAN



<i>voice_vlan_name</i>	(Optional) Voice VLAN name
<i>extended_trust</i>	(Optional) Extended Trust
<i>extended_trust_name</i>	(Optional) Extended Trust name
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association
<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping
<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info

#### Command Mode

- /exec

## show interface switchport

```
show interface switchport [ __readonly__ TABLE_interface <interface> <switchport> [ <switchport_monitor>
] [ <switchport_isolated> ] [ <switchport_block_multicast> ] [ <switchport_block_unicast> ] [ <mac_learning>
] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan> ] [ <native_vlan_name> ] [
<trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [ <voice_vlan> ] [ <voice_vlan_name> ] [
<extended_trust> ] [ <extended_trust_name> ] [ <admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ]
[ <admin_pvlan_pri_mapping> ] [ <admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [
<admin_pvlan_trunk_encap> ] [ <admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [
<oper_pvlan> ] [ <autostate_mode> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>mac_learning</i>	(Optional) Mac learning enabled/disabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>voice_vlan</i>	(Optional) Voice VLAN

<i>voice_vlan_name</i>	(Optional) Voice VLAN name
<i>extended_trust</i>	(Optional) Extended Trust
<i>extended_trust_name</i>	(Optional) Extended Trust name
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association
<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping
<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info

#### Command Mode

- /exec

## show interface switchport backup

```
show interface switchport backup [ detail ][ __readonly__ { TABLE_pair <ai_name> <bi_name> <ai_state>
<bi_state> <ai_prefer> <bi_prefer> <preempt_mode> <delay_value> <delay_default> <delay_scheduled>
<mcast_fast> <ai_bw> <ai_bw_name> <bi_bw> <bi_bw_name> <mmu_primary> } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
backup	Show interface backup
detail	(Optional) Backup interface info in detail
__readonly__	(Optional) Read Only
TABLE_pair	(Optional) Show interface backup
ai_name	(Optional) Active Interface name
bi_name	(Optional) Backup Interface name
ai_state	(Optional) Active Interface state
bi_state	(Optional) Backup Interface state
ai_prefer	(Optional) Active Interface prefer VLANs
bi_prefer	(Optional) Backup Interface prefer VLANs
preempt_mode	(Optional) Preempt mode
delay_value	(Optional) Preempt delay
delay_default	(Optional) Preempt delay value is default
delay_scheduled	(Optional) Preemption has been scheduled
mcast_fast	(Optional) Multicast Fast-Convergence
ai_bw	(Optional) Active Interface bandwidth
ai_bw_name	(Optional) Active Interface name for bandwidth
bi_bw	(Optional) Backup Interface bandwidth
bi_bw_name	(Optional) Backup Interface name for bandwidth
mmu_primary	(Optional) MAC Move Update primary VLAN

### Command Mode

- /exec

## show interface transceiver

```
show interface transceiver [ calibrations | details ] [ __readonly__ TABLE_interface <interface> [ <sf> ] [
<qsf> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [ <len_9>
] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [ <txcvr_type> ] [ <connector_type> ] [
<bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [ <fiber_type_byte0> ] [ <fiber_type_byte1> ] [
<tx_type> ] [ <tx_len> ] [ <tx_medium> ] [ <tx_speeds> ] [ <tx_range> ] [ <cable_type> ] [ <ciscoid> ] [
<ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ] [ <cisco_ext_id> ] [
<info_not_available> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope>
] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE_lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag>
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag>
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [
<snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi>
] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [
<pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo>
] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag>
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi>
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alm_hi> ] [
<uncorrect_ber_max_alm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alm_hi> ] [
<uncorrect_ber_cur_alm_lo> ] [ <uncorrect_ber_cur_warn_hi> ] [ <uncorrect_ber_cur_warn_lo> ] ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information

<i>calibrations</i>	(Optional) Show interface transceiver calibration information
<i>details</i>	(Optional) Show interface transceiver detail information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_ <i>interface</i>	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>qsfp_or_cfp</i>	(Optional) qsfp_or_cfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber
<i>len_cu</i>	(Optional) Link length supported for copper
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_type</i>	(Optional) FC Transmitter type
<i>tx_len</i>	(Optional) FC Transmitter length
<i>tx_medium</i>	(Optional) FC Transmitter medium
<i>tx_speeds</i>	(Optional) Transmission speeds

<i>tx_range</i>	(Optional) Transmission range
<i>cable_type</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>cisco_ext_id</i>	(Optional) Cisco extended ID
<i>info_not_available</i>	(Optional) No info available for this transceiver
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High



<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alm_hi</i>	(Optional) Current Alarm High
<i>current_alm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High

<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alm_hi</i>	(Optional) PAM alarm high
<i>pam_alm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag

<i>tec_current_alrm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alrm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alrm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alrm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alrm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alrm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alrm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alrm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alrm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alrm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max

<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alrm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alrm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alrm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alrm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alrm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alrm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alrm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alrm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alrm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alrm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low

<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

**Command Mode**

- /exec

## show interface transceiver

```
show interface <ifid_trns_fc> transceiver [ calibrations | details ] [ __readonly__ TABLE_interface
<interface_fc> [ <sfp_fc> ] [ <type_fc> ] [ <name_fc> ] [ <partnum_fc> ] [ <rev_fc> ] [ <serialnum_fc> ] [
<cisco_partnum_fc> ] [ <cisco_pid_fc> ] [ <tx_type_fc> ] [ <tx_len_fc> ] [ <tx_medium_fc> ] [ <tx_speeds_fc> ] [
] [ <nom_bitrate_fc> ] [ <len_9_fc> ] [ <len_50_fc> ] [ <len_625_fc> ] [ <len_50_OM3_fc> ] [
<cisco_ext_id_fc> ] [ <txcvr_type_fc> ] [ <connector_type_fc> ] [ <bit_encoding_fc> ] [ <protocol_type_fc> ] [
] [ <10gbe_code_fc> ] [ <fiber_type_byte0_fc> ] [ <fiber_type_byte1_fc> ] [ <tx_range_fc> ] [
<temp_slope_fc> ] [ <temp_offset_fc> ] [ <volt_slope_fc> ] [ <volt_offset_fc> ] [ <curr_slope_fc> ] [
<curr_offset_fc> ] [ <tx_pwr_slope_fc> ] [ <tx_pwr_offset_fc> ] [ <rx_pwr_4_fc> ] [ <rx_pwr_3_fc> ] [
<rx_pwr_2_fc> ] [ <rx_pwr_1_fc> ] [ <rx_pwr_0_fc> ] [ <temperature_fc> ] [ <temp_flag_fc> ] [
<temp_alarm_hi_fc> ] [ <temp_alarm_lo_fc> ] [ <temp_warn_hi_fc> ] [ <temp_warn_lo_fc> ] [ <voltage_fc> ] [
] [ <volt_flag_fc> ] [ <volt_alarm_hi_fc> ] [ <volt_alarm_lo_fc> ] [ <volt_warn_hi_fc> ] [ <volt_warn_lo_fc> ] [
] [ <current_fc> ] [ <current_flag_fc> ] [ <current_alarm_hi_fc> ] [ <current_alarm_lo_fc> ] [
<current_warn_hi_fc> ] [ <current_warn_lo_fc> ] [ <tx_pwr_fc> ] [ <tx_pwr_flag_fc> ] [ <tx_pwr_alarm_hi_fc> ] [
] [ <tx_pwr_alarm_lo_fc> ] [ <tx_pwr_warn_hi_fc> ] [ <tx_pwr_warn_lo_fc> ] [ <rx_pwr_fc> ] [
<rx_pwr_flag_fc> ] [ <rx_pwr_alarm_hi_fc> ] [ <rx_pwr_alarm_lo_fc> ] [ <rx_pwr_warn_hi_fc> ] [
<rx_pwr_warn_lo_fc> ] [ <xmit_faults_fc> ] [ <sfp_calibration> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trns_fc</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
<i>interface_fc</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp_fc</i>	(Optional) sfp
<i>type_fc</i>	(Optional) type
<i>name_fc</i>	(Optional) Name
<i>partnum_fc</i>	(Optional) part number
<i>rev_fc</i>	(Optional) revision
<i>serialnum_fc</i>	(Optional) serial number
<i>cisco_partnum_fc</i>	(Optional) Cisco part number
<i>cisco_pid_fc</i>	(Optional) Cisco PID

<i>tx_type_fc</i>	(Optional) FC Transmitter type
<i>tx_len_fc</i>	(Optional) FC Transmitter length
<i>tx_medium_fc</i>	(Optional) FC Transmitter medium
<i>tx_speeds_fc</i>	(Optional) Transmission speeds
<i>nom_bitrate_fc</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9_fc</i>	(Optional) Link length supported for 9/125um fiber
<i>len_50_fc</i>	(Optional) Link length supported for 50/125um fiber
<i>len_625_fc</i>	(Optional) Link length supported for 62.5/125um fiber
<i>len_50_OM3_fc</i>	(Optional) Link length supported for 50/125um fiber in m
<i>cisco_ext_id_fc</i>	(Optional) Cisco extended ID
<i>txcvr_type_fc</i>	(Optional) Transceiver type
<i>connector_type_fc</i>	(Optional) Connector type
<i>bit_encoding_fc</i>	(Optional) Bit encoding
<i>protocol_type_fc</i>	(Optional) Protocol type
<i>10gbe_code_fc</i>	(Optional) 10GbE code byte
<i>fiber_type_byte0_fc</i>	(Optional) Fiber Type Byte 0
<i>fiber_type_byte1_fc</i>	(Optional) Fiber Type Byte 1
<i>tx_range_fc</i>	(Optional) Transmission Range
<i>temp_slope_fc</i>	(Optional) Temperature slope
<i>temp_offset_fc</i>	(Optional) Temperature offset
<i>volt_slope_fc</i>	(Optional) Voltage slope
<i>volt_offset_fc</i>	(Optional) Voltage offset
<i>curr_slope_fc</i>	(Optional) Current slope
<i>curr_offset_fc</i>	(Optional) Current offset
<i>tx_pwr_slope_fc</i>	(Optional) Tx power slope
<i>tx_pwr_offset_fc</i>	(Optional) Tx power offset
<i>rx_pwr_4_fc</i>	(Optional) Rx power 4
<i>rx_pwr_3_fc</i>	(Optional) Rx power 3
<i>rx_pwr_2_fc</i>	(Optional) Rx power 2

<i>rx_pwr_1_fc</i>	(Optional) Rx power 1
<i>rx_pwr_0_fc</i>	(Optional) Rx power 0
<i>temperature_fc</i>	(Optional) Temperature
<i>temp_flag_fc</i>	(Optional) Temperature Flag
<i>temp_alarm_hi_fc</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo_fc</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi_fc</i>	(Optional) Temperature Warning High
<i>temp_warn_lo_fc</i>	(Optional) Temperature Warning Low
<i>voltage_fc</i>	(Optional) Voltage
<i>volt_flag_fc</i>	(Optional) Voltage Flag
<i>volt_alarm_hi_fc</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo_fc</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi_fc</i>	(Optional) Voltage Warning High
<i>volt_warn_lo_fc</i>	(Optional) Voltage Warning Low
<i>current_fc</i>	(Optional) Current
<i>current_flag_fc</i>	(Optional) Current Flag
<i>current_alarm_hi_fc</i>	(Optional) Current Alarm High
<i>current_alarm_lo_fc</i>	(Optional) Current Alarm Low
<i>current_warn_hi_fc</i>	(Optional) Current Warning High
<i>current_warn_lo_fc</i>	(Optional) Current Warning Low
<i>tx_pwr_fc</i>	(Optional) Tx Power
<i>tx_pwr_flag_fc</i>	(Optional) Tx Power Flag
<i>tx_pwr_alarm_hi_fc</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alarm_lo_fc</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi_fc</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo_fc</i>	(Optional) Tx Power Warning Low
<i>rx_pwr_fc</i>	(Optional) Rx Power
<i>rx_pwr_flag_fc</i>	(Optional) Rx Power Flag
<i>rx_pwr_alarm_hi_fc</i>	(Optional) Rx Power Alarm High



<i>rx_pwr_alrm_lo_fc</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi_fc</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo_fc</i>	(Optional) Rx Power Warning Low
<i>xmit_faults_fc</i>	(Optional) Transmit Fault Count
<i>sfp_calibration</i>	(Optional) Checking whether sfp is internally calibrated

**Command Mode**

- /exec

## show interface transceiver

```

show interface <ifid_transceiver> transceiver [ calibrations | details | sprom ] [ __readonly__ TABLE_interface
<interface> [ <sfp> ] [ <qsfp_or_cfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [
<nom_bitrate> ] [ <len_9> ] [ <len_9_2> ] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [
<txcvr_type> ] [ <connector_type> ] [ <bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [
<fiber_type_byte0> ] [ <fiber_type_byte1> ] [ <tx_range> ] [ <cable_type> ] [ <ciscoid> ] [ <ciscoid_1> ] [
<cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ] [ <firmware_version> ] [ <identifier>
] [ <ext_identifier> ] [ <connector> ] [ <infiniband_compliance_code> ] [ <sonet_compliance_code> ] [
<gigabit_ethernet_compliance_code> ] [ <fibre_chan_link_length> ] [ <fibre_chan_trans_technology> ] [
<fibre_chan_trans_tech_reserved> ] [ <fibre_chan_transmission_media> ] [ <fibre_chan_speed> ] [ <encoding>
] [ <br_nominal> ] [ <reserved1> ] [ <length_smf> ] [ <length_om5> ] [ <length_om4> ] [ <length_om3> ]
[ <length_om2> ] [ <length_om1> ] [ <length_9u_1> ] [ <length_9u_2> ] [ <length_50u> ] [ <length_60u>
] [ <length_copper> ] [ <reserved3> ] [ <wave_length> ] [ <wave_len_tolerance> ] [ <vendor_oui> ] [
<vendor_part_no> ] [ <vendor_revision> ] [ <reserved4> ] [ <check_code_id> ] [ <options> ] [ <br_max> ]
[ <br_min> ] [ <vendor_serial_no> ] [ <data_code> ] [ <diagnostic_monitoring_type> ] [ <enhanced_options>
] [ <sff8472compliance> ] [ <check_code_ext> ] [ <vendor_specific_data_id_data> ] [ <date_code> ] [
<clei_code> ] [ <power_class> ] [ <max_power> ] [ <cable_attenuation> ] [ <near_end_lanes> ] [
<far_end_lanes> ] [ <media_interface> ] [ <adv_code> ] [ <host_elt_intf_code> ] [ <med_intf_adv_code> ]
[ <host_lane_count> ] [ <med_lane_count> ] [ <max_mod_temp> ] [ <min_mod_temp> ] [ <min_op_volt>
] [ <info_not_available> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope>
] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE_lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag>
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag>
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
[ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [
<snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi>
] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [
<pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo>
] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag>
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi>
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [

```

```
<uncorrect_ber_max> ][ <uncorrect_ber_max_flag> ][ <uncorrect_ber_max_alm_hi> ][
<uncorrect_ber_max_alm_lo> ][ <uncorrect_ber_max_warn_hi> ][ <uncorrect_ber_max_warn_lo> ][
<uncorrect_ber_cur> ][ <uncorrect_ber_cur_flag> ][ <uncorrect_ber_cur_alm_hi> ][
<uncorrect_ber_cur_alm_lo> ][ <uncorrect_ber_cur_warn_hi> ][ <uncorrect_ber_cur_warn_lo> ] ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_transceiver</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
sprom	(Optional) Show interface transceiver sprom information
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>qsfp_or_cfp</i>	(Optional) qsfp_or_cfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber in Km
<i>len_9_2</i>	(Optional) Link length supported for 9/125um fiber in m
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber in m
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber in m
<i>len_cu</i>	(Optional) Link length supported for copper sfp in m
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)

<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>cable_type</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>firmware_version</i>	(Optional) Firmware version
<i>identifier</i>	(Optional) SFP Identifier
<i>ext_identifier</i>	(Optional) SFP Ext Identifier
<i>connector</i>	(Optional) SFP connector
<i>infiniband_compliance_code</i>	(Optional) SFP Infiniband Compliance Code
<i>sonet_compliance_code</i>	(Optional) Sonet Compliance Code
<i>gigabit_ethernet_compliance_code</i>	(Optional) Gigabit Ethernet Compliance Code
<i>fibre_chan_link_length</i>	(Optional) Fibre Chan Link Length
<i>fibre_chan_trans_technology</i>	(Optional) Fibre Chan Trans Technology
<i>fibre_chan_trans_tech_reserved</i>	(Optional) Fibre Chan Trans Tech Reserved
<i>fibre_chan_transmission_media</i>	(Optional) Fibre Chan Transmission Media
<i>fibre_chan_speed</i>	(Optional) Fibre Chan Speed
<i>encoding</i>	(Optional) Encoding
<i>br_nominal</i>	(Optional) BR Nominal
<i>reserved1</i>	(Optional) Reserved1
<i>length_smf</i>	(Optional) Length_SMF

<i>length_om5</i>	(Optional) Length_OM5
<i>length_om4</i>	(Optional) Length_OM4
<i>length_om3</i>	(Optional) Length_OM3
<i>length_om2</i>	(Optional) Length_OM2
<i>length_om1</i>	(Optional) Length_OM1
<i>length_9u_1</i>	(Optional) Length 9u 1
<i>length_9u_2</i>	(Optional) Length 9u 2
<i>length_50u</i>	(Optional) Length 50u
<i>length_60u</i>	(Optional) Length 60u
<i>length_copper</i>	(Optional) Length Copper
<i>reserved3</i>	(Optional) Reserved3
<i>wave_length</i>	(Optional) Nominal transmitter output wavelength
<i>wave_len_tolerance</i>	(Optional) Wavelength tolerance
<i>vendor_oui</i>	(Optional) Vendor OUI
<i>vendor_part_no</i>	(Optional) Vendor Part No
<i>vendor_revision</i>	(Optional) Vendor Revision
<i>reserved4</i>	(Optional) Reserved4
<i>check_code_id</i>	(Optional) Check Code ID
<i>options</i>	(Optional) Options
<i>br_max</i>	(Optional) BR max
<i>br_min</i>	(Optional) BR min
<i>vendor_serial_no</i>	(Optional) Vendor Serial No
<i>data_code</i>	(Optional) Data code
<i>diagnostic_monitoring_type</i>	(Optional) Diagnostic Monitoring Type
<i>enhanced_options</i>	(Optional) Enhanced Options
<i>sff8472compliance</i>	(Optional) SFF8472Compliance
<i>check_code_ext</i>	(Optional) Check code ext
<i>vendor_specific_data_id_data</i>	(Optional) Vendor Specific Data Id Data
<i>date_code</i>	(Optional) date code and lot code

<i>clei_code</i>	(Optional) 10-character CLEI code
<i>power_class</i>	(Optional) power class
<i>max_power</i>	(Optional) maximum power consumption
<i>cable_attenuation</i>	(Optional) copper cable attenuation
<i>near_end_lanes</i>	(Optional) near end lane information
<i>far_end_lanes</i>	(Optional) far end lane information
<i>media_interface</i>	(Optional) media interface technology
<i>adv_code</i>	(Optional) Module Advertising Code
<i>host_elt_intf_code</i>	(Optional) Module Host Electrical Interfaces Code
<i>med_intf_adv_code</i>	(Optional) Media Interface Advertising Code
<i>host_lane_count</i>	(Optional) Host Lane Count
<i>med_lane_count</i>	(Optional) Media Lane Count
<i>max_mod_temp</i>	(Optional) Maximum Module Temperature
<i>min_mod_temp</i>	(Optional) Minimum Module Temperature
<i>min_op_volt</i>	(Optional) Minimum Operating Voltage
<i>info_not_available</i>	(Optional) Info not available
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0

TABLE_lane	(Optional) show lane
lane_number	(Optional) Lane number
temperature	(Optional) Temperature
temp_flag	(Optional) Temperature Flag
temp_alrm_hi	(Optional) Temperature Alarm High
temp_alrm_lo	(Optional) Temperature Alarm Low
temp_warn_hi	(Optional) Temperature Warning High
temp_warn_lo	(Optional) Temperature Warning Low
voltage	(Optional) Voltage
volt_flag	(Optional) Voltage Flag
volt_alrm_hi	(Optional) Voltage Alarm High
volt_alrm_lo	(Optional) Voltage Alarm Low
volt_warn_hi	(Optional) Voltage Warning High
volt_warn_lo	(Optional) Voltage Warning Low
current	(Optional) Current
current_flag	(Optional) Current Flag
current_alrm_hi	(Optional) Current Alarm High
current_alrm_lo	(Optional) Current Alarm Low
current_warn_hi	(Optional) Current Warning High
current_warn_lo	(Optional) Current Warning Low
tx_pwr	(Optional) Tx Power
tx_pwr_flag	(Optional) Tx Power Flag
tx_pwr_alrm_hi	(Optional) Tx Power Alarm High
tx_pwr_alrm_lo	(Optional) Tx Power Alarm Low
tx_pwr_warn_hi	(Optional) Tx Power Warning High
tx_pwr_warn_lo	(Optional) Tx Power Warning Low
rx_pwr	(Optional) Rx Power
rx_pwr_flag	(Optional) Rx Power Flag
rx_pwr_alrm_hi	(Optional) Rx Power Alarm High

<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alm_hi</i>	(Optional) PAM alarm high
<i>pam_alm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER



<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alrm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alrm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alrm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alrm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alrm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alrm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alrm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alrm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alrm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alrm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low

<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alrm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alrm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alrm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alrm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alrm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alrm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alrm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alrm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alrm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alrm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high

<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

#### Command Mode

- /exec

## show interface trunk

```
show interface <ifeth_trnk> trunk [ __readonly__ { TABLE_interface <interface> <native> <status>
<portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } { TABLE_errored_vlans <interface>
<erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> } [ { TABLE_fabricpath_vlans
<interface> <fabricpath_vlans> } ] { TABLE_vtp_pruning <interface> <vtp pruning_vlans> } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>native</i>	(Optional) Native VLAN
<i>status</i>	(Optional) Status
<i>portchannel</i>	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
<i>interface</i>	(Optional) Interface index
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
<i>interface</i>	(Optional) Interface index
<i>erroredvlans</i>	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs
<i>interface</i>	(Optional) Interface index
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
<i>interface</i>	(Optional) Interface index
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs

<i>interface</i>	(Optional) Interface index
<i>vtp pruning vlans</i>	(Optional) VTP Pruning VLANs

**Command Mode**

- /exec

## show interface trunk

```
show interface trunk [ module <module> | vlan <vlan_id> | fex <fex_num> ] [ __readonly__ [ {
TABLE_interface <interface> <native> <status> <portchannel> } ] [ { TABLE_allowed_vlans <interface>
<allowedvlans> } ] [ { TABLE_errored_vlans <interface> <erroredvlans> } ] [ { TABLE_stp_forward
<interface> <stpfdv_vlans> } ] [ { TABLE_fabricpath_vlans <interface> <fabricpath_vlans> } ] [ {
TABLE_vtp_pruning <interface> <vtppruning_vlans> } ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
fex	(Optional) Limit display to interfaces on a FEX
<i>fex_num</i>	(Optional) Enter FEX number
vlan	(Optional) Show per vlan information for trunk
<i>vlan_id</i>	(Optional) Enter vlan range
<i>interface</i>	(Optional) Interface index
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>native</i>	(Optional) Native VLAN
<i>status</i>	(Optional) Status
<i>portchannel</i>	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
<i>interface</i>	(Optional) Interface index
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
<i>interface</i>	(Optional) Interface index
<i>erroredvlans</i>	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs

<i>interface</i>	(Optional) Interface index
<i>stp fwd_vlans</i>	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
<i>interface</i>	(Optional) Interface index
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs
<i>vtp pruning_vlans</i>	(Optional) VTP Pruning VLANs

**Command Mode**

- /exec

## show interface trunk vsan

```
show interface trunk vsan [ <vsan_id> ] [ __readonly__ { TABLE_interface_trunk [ <interface> ] [ <oper_state> ] [ <oper_state_reason> ] [ <bundle_str> ] [ TABLE_vsan_info { [ <vsan_num> ] [ <vsan_state> ] [ <vsan_state_reason> ] [ <fcid> ] } } ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
<i>vsan_id</i>	(Optional) Enter vsan range
<i>__readonly__</i>	(Optional)
TABLE_interface_trunk	(Optional) interface trunk table
<i>interface</i>	(Optional) fc interface
<i>oper_state</i>	(Optional) the status of trunking
<i>oper_state_reason</i>	(Optional) reason for operation state
<i>bundle_str</i>	(Optional) bundle string
TABLE_vsan_info	(Optional) vsan information
<i>vsan_num</i>	(Optional) the vsan ID
<i>vsan_state</i>	(Optional) the status of vsan
<i>vsan_state_reason</i>	(Optional) reason for vsan state
<i>fcid</i>	(Optional) FCID

### Command Mode

- /exec



## show interface trunk vsan

```
show interface <ifid_trnk> trunk vsan [ <vsan_id> ] [ __readonly__ { TABLE_interface_trunk [ <interface>
] [ <oper_state> ] [ <oper_state_reason> ] [ <bundle_str> ] [ TABLE_vsan_info { [ <vsan_num> ] [
<vsan_state> ] [ <vsan_state_reason> ] [ <fcid> } ] } ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
<i>vsan_id</i>	(Optional) Enter vsan range
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface_trunk	(Optional) interface trunk table
<i>interface</i>	(Optional) fc interface
<i>oper_state</i>	(Optional) the status of trunking
<i>oper_state_reason</i>	(Optional) reason for operation state
<i>bundle_str</i>	(Optional) bundle string
TABLE_vsan_info	(Optional) vsan information
<i>vsan_num</i>	(Optional) the vsan ID
<i>vsan_state</i>	(Optional) the ststus of vsan
<i>vsan_state_reason</i>	(Optional) reason for vsan state
<i>fcid</i>	(Optional) FCID

### Command Mode

- /exec

## show interface untagged-cos

```
show interface untagged-cos [ module <mod_num> ] [ __readonly__ TABLE_interface <interface>
<ucos-value> [ <portmode> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
untagged-cos	Show interface untagged CoS information
module	(Optional) Limit display to interfaces on module
<i>mod_num</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>ucos-value</i>	(Optional) COS value
<i>portmode</i>	(Optional) Port mode

### Command Mode

- /exec

## show interface vlan mapping

```
show interface <ifindex> vlan mapping [ __readonly__ <if-index-id> { TABLE_vlan_xlt <orig-vlan-id> [
<inner-vlan-id> ] <xlt-vlan-id> } <show-end> [ <true-end> ] ]
```

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifindex</i>	Enter interface type and number in module/slot format
vlan	Show VLAN information
mapping	VLAN translation mapping
<i>__readonly__</i>	(Optional) Read Only
TABLE_vlan_xlt	(Optional) Vlan translation table
<i>if-index-id</i>	(Optional) Interface index id
<i>orig-vlan-id</i>	(Optional) Original Vlan Id
<i>inner-vlan-id</i>	(Optional) Inner Vlan Id
<i>xlt-vlan-id</i>	(Optional) Translated Vlan Id
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

### Command Mode

- /exec

# show inventory

```
show inventory [ chassis | fans | power_supply | module [ <module> ] | <s0> [ <santa-cruz-range> ] | all ] [
__readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum> ]
```

## Syntax Description

show	Show running system information
inventory	system inventory information
chassis	(Optional) system inventory chassis information
fans	(Optional) system inventory fan information
power_supply	(Optional) system inventory power supply information
module	(Optional) system inventory module information
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) please enter the module number
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
all	(Optional) system and transceiver inventory information
<i>__readonly__</i>	(Optional)
TABLE_inv	(Optional) Inventory table
<i>name</i>	(Optional) Name of inventory
<i>desc</i>	(Optional) Description of inventory
<i>productid</i>	(Optional) Product ID
<i>vendorid</i>	(Optional) Vendor ID
<i>serialnum</i>	(Optional) Serial Number

## Command Mode

- /exec



<i>global_punt_pkt_cnt</i>	(Optional) Global packet punt count
<i>global_punt_byte_cnt</i>	(Optional) Global byte punt count
<i>global_glean_pkt_cnt</i>	(Optional) Global glean packet count
<i>global_glean_byte_cnt</i>	(Optional) Global glean byte count
<i>glean_pkt_cnt</i>	(Optional) Glean packet count
<i>glean_byte_cnt</i>	(Optional) Glean byte count
<i>normal_pkt_cnt</i>	(Optional) Packet count
<i>normal_byte_cnt</i>	(Optional) Byte count
<i>last_updated</i>	(Optional) Last updated
<i>count-static</i>	(Optional) Count static
<i>count-dynamic</i>	(Optional) Count dynamic
<i>count-others</i>	(Optional) Count others
<i>count-throttle</i>	(Optional) Count throttle
<i>count-total</i>	(Optional) Count total
TABLE_afi	(Optional) TABLR afi
<i>afi</i>	(Optional) afi
<i>count</i>	(Optional) count
TABLE_adj	(Optional) Adjacency table
<i>intf-out</i>	(Optional) Interface
<i>phy-intf</i>	(Optional) Physical interface
<i>ip-addr-out</i>	(Optional) IP address
<i>mac</i>	(Optional) MAC address
<i>pref</i>	(Optional) Preference
<i>owner</i>	(Optional) Owner
<i>pkt-count</i>	(Optional) Packet count
<i>byte-count</i>	(Optional) Byte count
<i>is-best</i>	(Optional) Best
<i>is-thrtld</i>	(Optional) Throttled

**Command Mode**

- /exec

## show ip amt relay

```
show { ip | ipv6 } amt relay [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<tut> <ra> <nds> <ldn> <nts> <lrn> <lra> <lq> <uc> <rc4> <rc6> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
relay	Display status information about the AMT Relay
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>tut</i>	(Optional)
<i>ra</i>	(Optional)
<i>vrf</i>	(Optional)
<i>nds</i>	(Optional)
<i>ldn</i>	(Optional)
<i>nts</i>	(Optional)
<i>lrn</i>	(Optional)
<i>lra</i>	(Optional)
<i>lq</i>	(Optional)
<i>uc</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)

### Command Mode

- /exec



## show ip amt route

```
show { ip | ipv6 } amt route [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<rc4> <rc6> { TABLE_route <addrs> <if> <nbr> <gwa> <gw_exp> } ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
route	Display multicast routes learned via AMT
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)
TABLE_route	(Optional)
<i>addrs</i>	(Optional)
<i>if</i>	(Optional)
<i>nbr</i>	(Optional)
<i>gwa</i>	(Optional)
<i>gw_exp</i>	(Optional)

### Command Mode

- /exec

# show ip amt tunnel

```
show ip amt tunnel [ <address4> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc4> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

## Syntax Description

show	Show running system information
amt	AMT show commands
ip	Display IP information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>address4</i>	(Optional) IP address of tunnel endpoint
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc4</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)

<i>group</i>	(Optional)
<i>rexp</i>	(Optional)

**Command Mode**

- /exec

## show ip arp

```
show ip arp [ [ [ <ip-address> | [ sync-entries | fhrp-non-active-learn ] [ detail ] | static | summary | [ summary
] <interface> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ TABLE_vrf <vrf-name-out>
[ <cnt-resolved> ] [ <cnt-incomplete> ] [ <cnt-thrld-incomplete> ] [ <cnt-unknown> ] [ <cnt-total> ] [
TABLE_adj <intf-out> <ip-addr-out> [ <time-stamp> ] { <mac> | <unknown> | <incomplete> } [ <phy-intf>
] [ <flags> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
summary	(Optional) Display ARP adjacency summary
detail	(Optional) Display detailed information
sync-entries	(Optional) Display ARP table learnt only due to arp table sync
fhrp-non-active-learn	(Optional) Display ARP table learnt only due to request for non-active FHRP address
<i>interface</i>	(Optional) ARP interface
<i>ip-address</i>	(Optional) IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
static	(Optional) Display Static ARP entries
__readonly__	(Optional)
TABLE_vrf	(Optional) Show VRF table
<i>vrf-name-out</i>	(Optional) Show VRF name
<i>cnt-resolved</i>	(Optional) Show total resolved ARP entries
<i>cnt-incomplete</i>	(Optional) Show total incomplete ARP entreis
<i>cnt-thrld-incomplete</i>	(Optional) Show total incomplete throttled entries
<i>cnt-unknown</i>	(Optional) Show total unknow entris
<i>cnt-total</i>	(Optional) Show total

<i>TABLE_adj</i>	(Optional) Show IP ARP
<i>intf-out</i>	(Optional) Show interface
<i>ip-addr-out</i>	(Optional) Show ip address
<i>time-stamp</i>	(Optional) Show age of adjacency
<i>mac</i>	(Optional) Show mac
<i>unknown</i>	(Optional) Show unknown entry
<i>incomplete</i>	(Optional) Show incomplete entry
<i>phy-intf</i>	(Optional) Show physical interface
<i>flags</i>	(Optional) Show flags

**Command Mode**

- /exec

## show ip arp anycast topo-info

```
show ip arp anycast topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_anycast_topo_info [
<ip_arp_anycat_topo_id> ] [ <ip_arp_anycast_feature> ] [ <ip_arp_anycast_mode> ] } ]
```

### Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
anycast	anycast feature info
topo-info	Per topology specific information
<i>topo-id</i>	(Optional) Topology ID (VLAN-ID or BD-ID)
<i>__readonly__</i>	(Optional)
<i>TABLE_ip_arp_anycast_topo_info</i>	(Optional) Show ip arp anycast topo-info
<i>ip_arp_anycat_topo_id</i>	(Optional) Show ARP anycast topo-id
<i>ip_arp_anycast_feature</i>	(Optional) Show ARP anycast feature
<i>ip_arp_anycast_mode</i>	(Optional) Show ARP anycast mode

### Command Mode

- /exec

# show ip arp client

```
show ip arp client [ __readonly__ { <arp-clients> } [ TABLE_arp_client_list { <arp-cli-uuid> <l2-client-type>
<client-flg> <mts-addr-sap> <cli-msg-cnt> [ <l2-cli-func-name> ] [ <l2-cli-dbg-func> ] [
<l2-cli-dbg-un-init-func> ] } ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
client	Display ARP Client table
<i>__readonly__</i>	(Optional)
<i>arp-clients</i>	(Optional) Number of ARP Clients
TABLE_arp_client_list	(Optional) Show ip arp client
<i>arp-cli-uuid</i>	(Optional) Protocol uuid
<i>l2-client-type</i>	(Optional) Client type
<i>client-flg</i>	(Optional) Flags
<i>mts-addr-sap</i>	(Optional) SAP
<i>cli-msg-cnt</i>	(Optional) Client message count
<i>l2-cli-func-name</i>	(Optional) Received function
<i>l2-cli-dbg-func</i>	(Optional) Debug init function
<i>l2-cli-dbg-un-init-func</i>	(Optional) Debug Un-init function

## Command Mode

- /exec

## show ip arp controller-statistics

```
show ip arp controller-statistics [ __readonly__ { TABLE_ip_arp_controller_statistics [
<arp_adj_controller_add_count> ] [ <arp_adj_controller_del_count> ] [ <arp_adj_controller_add_err_count>
] [ <arp_adj_controller_del_err> ] } ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
controller-statistics	Controller statistics
__readonly__	(Optional)
TABLE_ip_arp_controller_statistics	(Optional) Show controller-statistics
<i>arp_adj_controller_add_count</i>	(Optional)
<i>arp_adj_controller_del_count</i>	(Optional)
<i>arp_adj_controller_add_err_count</i>	(Optional)
<i>arp_adj_controller_del_err</i>	(Optional)

### Command Mode

- /exec



# show ip arp esi

```
show ip arp esi [ __readonly__ { TABLE_ip_arp_esi [ <ip_arp_esi_interface> ] [ <ip_arp_esi_value> ] } ]
```

## Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
esi	ESI information
__readonly__	(Optional)
TABLE_ip_arp_esi	(Optional) Show ip arp esi
<i>ip_arp_esi_interface</i>	(Optional) Interface
<i>ip_arp_esi_value</i>	(Optional) Values

## Command Mode

- /exec

## show ip arp inspection

```
show ip arp inspection [ __readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid> TABLE_entry
<active_vlan_id> <is_insp_enabled> <oper_state> [ <acl_name> ] [ [ <acl_logging> ] <dhcp_logging> ] [
<req_fwded> <res_fwded> <req_dropped> <res_dropped> <dhcp_drops> <acl_drops> <dhcp_permits>
<acl_permits> <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
<i>__readonly__</i>	(Optional) read only
<i>src_mac_valid</i>	(Optional) source ethernet address in header must be same as sender mac address in arp payload
<i>dest_mac_valid</i>	(Optional) destination ethernet address in header must be same as target mac address in arp payload
<i>ip_addr_valid</i>	(Optional) validate the target ip address to filter broadcast/multicast address in arp payload
TABLE_entry	(Optional)
<i>active_vlan_id</i>	(Optional) active vlan id
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

### Command Mode

- /exec

# show ip arp inspection interfaces

```
show ip arp inspection interfaces [ <intf1> ] [ __readonly__ <intf_header> [ TABLE_intf <intf2> <trust_state> ] ]
```

## Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
interfaces	Trust status of all interfaces
<i>intf1</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
<i>TABLE_intf</i>	(Optional)
<i>intf_header</i>	(Optional)
<i>intf2</i>	(Optional)
<i>trust_state</i>	(Optional)

## Command Mode

- /exec

## show ip arp inspection log

```
show ip arp inspection log [ __readonly__ <log_buff_size> <log_rate_entries> <log_rate_interval> [
<log_frame> ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
log	Log Buffer
<i>__readonly__</i>	(Optional)
<i>log_buff_size</i>	(Optional) number of entries per log buffer
<i>log_rate_entries</i>	(Optional) number of entries into log buffer per sec
<i>log_rate_interval</i>	(Optional) time after which log buffer is updated in sec
<i>log_frame</i>	(Optional) log frames in buffer

### Command Mode

- /exec

## show ip arp inspection statistics

```
show ip arp inspection statistics [ vlan <vlan-range> ] [ __readonly__ TABLE_stats <vlanid> <req_fwded>
<res_fwded> <req_dropped> <res_dropped> <dhcp_drops> [ <acl_drops> ] <dhcp_permits> [ <acl_permits>
] <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
statistics	Status of ARP Inspection
vlan	(Optional) Selected vlan range
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
TABLE_stats	(Optional)
<i>vlanid</i>	(Optional) ip arp inspection vlan id

### Command Mode

- /exec

## show ip arp inspection vlan

```
show ip arp inspection { vlan <vlan-range> } [ __readonly__ <src_vlan_mac_valid> <dest_vlan_mac_valid>
<ip_vlan_addr_valid> TABLE_vlan <active_vlan_id> <is_insp_enabled> <oper_state> [ <dhcp_logging> ]
[ <acl_name> ] [ <acl_logging> ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
vlan	Selected vlan range
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
<i>src_vlan_mac_valid</i>	(Optional) validates header source mac address with sender mac address in arp payload
<i>dest_vlan_mac_valid</i>	(Optional) validates header destination mac address with target mac address in arp payload
<i>ip_vlan_addr_valid</i>	(Optional) filters invalid ip addresses like multicast/broadcast in arp requests/responses
TABLE_vlan	(Optional)
<i>active_vlan_id</i>	(Optional) active vlan id
<i>is_insp_enabled</i>	(Optional) ip arp inspection on vlan
<i>oper_state</i>	(Optional) operational on vlan
<i>acl_name</i>	(Optional) arp inspection access list name
<i>acl_logging</i>	(Optional) acl logging options
<i>dhcp_logging</i>	(Optional) ip arp inspection dhcp-binding logging options

### Command Mode

- /exec

## show ip arp l2 statistics interface

```
show ip arp l2 statistics interface { <interface> | all } [ __readonly__ { TABLE_ip_arp_l2_statistics
<arp-l2-port-iframe> <arp-l2-port-stats-rx-total> } ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
l2	Display ARP L2 port level info
statistics	Display ARP statistics
interface	ARP interface
<i>interface</i>	ARP interface
all	Display ARP statistics for all interface
__readonly__	(Optional)
TABLE_ip_arp_l2_statistics	(Optional) Show ip arp l2 stats
<i>arp-l2-port-iframe</i>	(Optional) Interface name
<i>arp-l2-port-stats-rx-total</i>	(Optional) L2 port stats rx toal

### Command Mode

- /exec

## show ip arp multihoming-statistics

```
show ip arp multihoming-statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ TABLE_vrf <vrf-name-out2> TABLE_stat <ps-recv-add-l2rib> <ps-proc-add-l2rib>
<ps-recv-del-l2rib> <ps-proc-del-l2rib> <ps-recv-pc-shut-l2rib> <ps-proc-pc-shut-l2rib>
<ps-recv-remote-upd-l2rib> <ps-proc-remote-upd-l2rib> <ps-add-err-invalid-flags> <ps-del-err-invalid-flags>
<ps-add-err-invalid-curr-state> <ps-del-err-invalid-curr-state> <ps-del-err-mac-mismatch> <ps-del-err-sec-del>
<ps-del-err-tl-route> <tl-del-err-psro-route> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
multihoming-statistics	Display ARP Multihoming stats
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP Multihoming statistics for all vrfs
interface-all	(Optional) Display ARP Multihoming statistics for all interface
<i>interface</i>	(Optional) ARP interface
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name-out2</i>	(Optional) VRF name
TABLE_stat	(Optional) Show ip arp multihoming statistics
<i>ps-recv-add-l2rib</i>	(Optional) Received ADD from L2RIB
<i>ps-recv-del-l2rib</i>	(Optional) Received DEL from L2RIB
<i>ps-recv-remote-upd-l2rib</i>	(Optional) Received remote UPD from L2RIB
<i>ps-recv-pc-shut-l2rib</i>	(Optional) Received PC shut from L2RIB
<i>ps-proc-add-l2rib</i>	(Optional) Processed ADD from L2RIB
<i>ps-proc-del-l2rib</i>	(Optional) Processed DEL from L2RIB
<i>ps-proc-remote-upd-l2rib</i>	(Optional) Processed remote UPD from L2RIB
<i>ps-proc-pc-shut-l2rib</i>	(Optional) Processed PC shut from L2RIB



<i>ps-add-err-invalid-flags</i>	(Optional) Multihoming ADD error invalid flag
<i>ps-del-err-invalid-flags</i>	(Optional) Multihoming DEL error invalid flag
<i>ps-add-err-invalid-curr-state</i>	(Optional) Multihoming ADD error invalid current state
<i>ps-del-err-invalid-curr-state</i>	(Optional) Multihoming DEL error invalid current state
<i>ps-del-err-mac-mismatch</i>	(Optional) Peer sync DEL error MAC mismatch
<i>ps-del-err-tl-route</i>	(Optional) Peer sync DEL error second delete
<i>tl-del-err-psro-route</i>	(Optional) True local DEL error deleteing PS RO route
<i>ps-del-err-sec-del</i>	(Optional) Peer sync DEL error second delete

**Command Mode**

- /exec

# show ip arp off-list

```
show ip arp off-list [ { vlan | bdi } <vlan-id> ] [ __readonly__ [ <offlist-vlan-id> <vlan-adj-cnt> ] [
<arp-sync-adj-cnt> ] { TABLE_arp_vlan_list <adj-vlan-id> <off-adj-ip-addr> <time-stamp> <arp-mac-addr>
<off-adj-flags> } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
off-list	Show adjacencies in off-list arp database
vlan	(Optional) Vlan id
bdi	(Optional) Bridge Domain Name/Id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>offlist-vlan-id</i>	(Optional) Show ip arp offlist vlan-id
<i>vlan-adj-cnt</i>	(Optional) Show ip arp vlan adjacency count
<i>arp-sync-adj-cnt</i>	(Optional) Show arp sync adjacency count
TABLE_arp_vlan_list	(Optional) Show ip arp vlan list
<i>adj-vlan-id</i>	(Optional) Show ip arp adjacency vlan id
<i>off-adj-ip-addr</i>	(Optional) Show arp offlist adjacency ip address
<i>time-stamp</i>	(Optional) Show duration
<i>arp-mac-addr</i>	(Optional) Show mac address
<i>off-adj-flags</i>	(Optional) show offlist adjacencyy flgs

## Command Mode

- /exec

## show ip arp open-flow error-statistics

```
show ip arp open-flow error-statistics [ __readonly__ <arp_ofa_total_err_cnt> <arp_ofa_dp_adj_err_on_del>
<arp_ofa_cp_mac_mismatch_err_on_del> <arp_ofa_cp_null_mac_err_on_del>
<arp_ofa_cp_no_adj_err_on_del_flag> <arp_ofa_cp_cp_nh_mismatch_err_on_del>
<arp_ofa_cp_adj_del_failure_err> <arp_ofa_cp_null_mac_err_on_add>
<arp_ofa_cp_dp_mac_mismatch_err_on_add> <arp_ofa_cp_cp_mac_mismatch_err_on_add>
<arp_ofa_cp_added_first_err> <arp_ofa_dp_overwrite_cp_err> <arp_ofa_dp_cp_nh_mismatch_err_on_add>
<arp_ofa_cp_cp_nh_mismatch_err_on_add> <arp_ofa_cp_dp_nh_mismatch_err_on_add>
<arp_ofa_cp_adj_add_failure_err> <arp_ofa_peer_ip_lookup_rec_phy_iod_err>
<arp_ofa_peer_ip_ipv6_rec_phy_iod_err> <arp_ofa_peer_ip_lookup_adj_phy_iod_err>
<arp_ofa_peer_ip_ipv6_adj_phy_iod_err> <arp_ofa_barrier_response_err> ]
```

### Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
open-flow	open flow
error-statistics	IR mode specific adjacency statistics
<i>__readonly__</i>	(Optional)
<i>arp_ofa_total_err_cnt</i>	(Optional) OFA total error count
<i>arp_ofa_dp_adj_err_on_del</i>	(Optional) Controller Deleting DP adjacency error
<i>arp_ofa_cp_mac_mismatch_err_on_del</i>	(Optional) CP adjacency MAC mismatch error while delete
<i>arp_ofa_cp_null_mac_err_on_del</i>	(Optional) CP adjacency NULL mac error while delete
<i>arp_ofa_cp_no_adj_err_on_del_flag</i>	(Optional) No adjacency found while delete
<i>arp_ofa_cp_cp_nh_mismatch_err_on_del</i>	(Optional) CP adjacency NH mismatch error while delete
<i>arp_ofa_cp_adj_del_failure_err</i>	(Optional) Other errors while deleting
<i>arp_ofa_cp_null_mac_err_on_add</i>	(Optional) CP adjacency NULL mac error while Adding
<i>arp_ofa_cp_dp_mac_mismatch_err_on_add</i>	(Optional) DP adjacency present with different mac
<i>arp_ofa_cp_cp_mac_mismatch_err_on_add</i>	(Optional) CP adjacency present with different mac
<i>arp_ofa_cp_added_first_err</i>	(Optional) CP adjacency added first
<i>arp_ofa_dp_overwrite_cp_err</i>	(Optional) Overwriting CP adjacency with DP
<i>arp_ofa_dp_cp_nh_mismatch_err_on_add</i>	(Optional) DP adjacency already present with different NH
<i>arp_ofa_cp_cp_nh_mismatch_err_on_add</i>	(Optional) CP adjacency already present with different NH

<i>arp_ofa_cp_dp_nh_mismatch_err_on_add</i>	(Optional) Overwriting CP adj with DP with different NH
<i>arp_ofa_cp_adj_add_failure_err</i>	(Optional) Other errors while adding
<i>arp_ofa_peer_ip_lookup_rec_phy_iod_err</i>	(Optional) Peer IP lookup for received physical iod
<i>arp_ofa_peer_ip_ipv6_rec_phy_iod_err</i>	(Optional) Peer is IPv6 for received physical iod
<i>arp_ofa_peer_ip_lookup_adj_phy_iod_err</i>	(Optional) Peer IP lookup for adjacency physical iod
<i>arp_ofa_peer_ip_ipv6_adj_phy_iod_err</i>	(Optional) Peer is IPv6 for adjacecny physical iod
<i>arp_ofa_barrier_response_err</i>	(Optional) Barrier responses

**Command Mode**

- /exec

## show ip arp statistics

```
show ip arp statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf-name-out1> [ TABLE_stat <tx-total> <tx-req> <tx-reply> <tx-req-l2>
<tx-reply-l2> <tx-grat> <tx-tunnel> <tx-drop> [ <tx-srvrport> ] [ <tx-fbrcport> ] [ <tx-fixup-core> ] [
<tx-fixup-server> ] [ <tx-fixup-rarp> ] [ <tx-anycast-glean> ] <tx-mbuf-fail> <tx-ctxt-not-crted> <tx-bad-ctxt-id>
<tx-invalid-ifindex> <tx-invalid-sip> <tx-invalid-dip> <tx-own-ip> <tx-unattached-ip> <tx-adj-create-fail>
<tx-null-sip> <tx-null-smac> <tx-client-enq-fail> <tx-dest-unreachable-proxy-arp>
<tx-dest-unreachable-enhanced-proxy> <tx-dest-l2port-track> <tx-invalid-local-proxy> <tx-invalid-proxy>
<tx-vip-not-active> <tx-skip-refresh-over-core-and-flood-to-server> <rx-total> <rx-req> <rx-reply> <rx-req-l2>
<rx-reply-l2> <rx-proxy> <rx-local-proxy> <rx-enhanced-proxy> <rx-enhanced-proxy-anycast>
<rx-enhanced-proxy-l2port-track> <rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if>
<bad-len> <invalid-prot> <invalid-hrd-type> <invalid-ctxt> <ctxt-not-crted> <invalid-l2> <invalid-l3>
<invalid-sip> <our-sip> <arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip> <non-local-dst>
<non-active-fhrp> <invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted> <stdby-fhrp-vip>
<grat-prxy-en> <arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel_fail> [ <hsrp-active-vmac> ] [
<rx-intf-down> ] <recv-glean-count> <refresh-req-from-clients> <l2rib-signals> <adds> <dels> <timeouts>
]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
statistics	Display ARP statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs
interface-all	(Optional) Display ARP statistics for all interface
<i>interface</i>	(Optional) ARP interface
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional) Table Vrf
<i>vrf-name-out1</i>	(Optional) Show VRF name
TABLE_stat	(Optional) Show IP ARP statistics
<i>tx-total</i>	(Optional) Sent: total
<i>tx-req</i>	(Optional) Sent: request
<i>tx-reply</i>	(Optional) Sent: reply

<i>tx-req-l2</i>	(Optional) Sent: request on L2
<i>tx-reply-l2</i>	(Optional) Sent: replay on L2
<i>tx-grat</i>	(Optional) Sent: gratuitous
<i>tx-tunnel</i>	(Optional) Sent: tunnel packet
<i>tx-drop</i>	(Optional) Sent:Dropped packet
<i>tx-srvrport</i>	(Optional) Sent from Server Port
<i>tx-fbrport</i>	(Optional) Sent from Fabric Port
<i>tx-fixup-core</i>	(Optional) Sent: fixup core
<i>tx-fixup-server</i>	(Optional) Sent: fixup server
<i>tx-fixup-rarp</i>	(Optional) Sent: fixup rarp
<i>tx-anycast-glean</i>	(Optional) Sent: modified anycast glean
<i>tx-mbuf-fail</i>	(Optional) Sent:MBUF operation failed
<i>tx-ctxt-not-crtd</i>	(Optional) Sent:Context not yet created
<i>tx-bad-ctxt-id</i>	(Optional) Sent:Invalid context
<i>tx-invalid-ifindex</i>	(Optional) Sent:Invalid ifindex
<i>tx-invalid-sip</i>	(Optional) Sent:Invalid SRC IP
<i>tx-invalid-dip</i>	(Optional) Sent:Invalid DEST IP
<i>tx-own-ip</i>	(Optional) Sent:Destination is our own IP
<i>tx-unattached-ip</i>	(Optional) Sent:Unattached IP
<i>tx-adj-create-fail</i>	(Optional) Sent:Adjacency Couldn't be added
<i>tx-null-sip</i>	(Optional) Sent:Null Source IP
<i>tx-null-smac</i>	(Optional) Sent: Null Source MAC
<i>tx-client-enq-fail</i>	(Optional) Sent: Client Enqueue Failed
<i>tx-dest-unreachable-proxy-arp</i>	(Optional) Sent: Dest. not reachable for proxy arp
<i>tx-dest-unreachable-enhanced-proxy</i>	(Optional) Sent:Dest. unreachable for enhanced proxy
<i>tx-dest-l2port-track</i>	(Optional) Sent:Dest. on L2 port being tracked
<i>tx-invalid-local-proxy</i>	(Optional) Sent:Invalid Local proxy arp
<i>tx-invalid-proxy</i>	(Optional) Sent:Invalid proxy arp
<i>tx-vip-not-active</i>	(Optional) Sent:VIP is not active

<i>tx-skip-refresh-over-core-and-flood-to-server</i>	(Optional) ARP refresh skipped over core and sent on server side
<i>rx-total</i>	(Optional) Received: total
<i>rx-req</i>	(Optional) Received: Requests
<i>rx-reply</i>	(Optional) Received: Replies
<i>rx-req-l2</i>	(Optional) Received: Requests on L2
<i>rx-reply-l2</i>	(Optional) Received: Replies on L2
<i>rx-proxy</i>	(Optional) Received: Proxy arp
<i>rx-local-proxy</i>	(Optional) Received: Local-Proxy arp
<i>rx-enhanced-proxy</i>	(Optional) Received: Enhanced Proxy arp
<i>rx-enhanced-proxy-anycast</i>	(Optional) Received: Anycast proxy Proxy arp
<i>rx-enhanced-proxy-l2port-track</i>	(Optional) Received: L2 Port-track Proxy arp
<i>rx-tunnel</i>	(Optional) Received: Tunneled
<i>rx-fastpath</i>	(Optional) Received: Fastpath
<i>rx-snoop</i>	(Optional) Received: Snooped
<i>rx-drop</i>	(Optional) Received: Dropped
<i>rx-srvrport</i>	(Optional) Received: on Server Port
<i>bad-if</i>	(Optional) Appeared on a wrong interface
<i>bad-len</i>	(Optional) Incorrect length
<i>invalid-prot</i>	(Optional) Invalid protocol packet
<i>invalid-hrd-type</i>	(Optional) Invalid Hardware type
<i>invalid-ctxt</i>	(Optional) Invalid context
<i>ctxt-not-crtd</i>	(Optional) Context not yet created
<i>invalid-l2</i>	(Optional) Invalid layer 2 address length
<i>invalid-l3</i>	(Optional) Invalid layer 3 address length
<i>invalid-sip</i>	(Optional) Invalid source IP address
<i>our-sip</i>	(Optional) Source IP address is our own
<i>arp-if-no-mem</i>	(Optional) No mem to create per intf structure
<i>subnet-mismatch</i>	(Optional) Source address mismatch with subnet
<i>dir-bcast</i>	(Optional) Directed broadcast source

<i>invalid-dip</i>	(Optional) Invalid destination IP address
<i>non-local-dst</i>	(Optional) Non-local destination IP address
<i>non-active-fhrp</i>	(Optional) Non-active FHRP dest IP address. Learn and drop
<i>invalid-smac</i>	(Optional) Invalid source MAC address
<i>our-smac</i>	(Optional) Source MAC address is our own
<i>not-init</i>	(Optional) Received before arp initialization
<i>l2-prxy-en</i>	(Optional) L2 packet on proxy-arp-enabled interface
<i>l2-port-untrusted</i>	(Optional) L2 packet on untrusted L2 port
<i>stdby-fhrp-vip</i>	(Optional) Packet with VIP on standby FHRP
<i>grat-prxy-en</i>	(Optional) Grat arp received on proxy-arp-enabled interface
<i>arp-req-ignore</i>	(Optional) Requests came for existing entries
<i>l2-intf</i>	(Optional) Requests came on a L2 interface
<i>l2fm-query-fail</i>	(Optional) L2FM query failed for a L2 Address
<i>tunnel_fail</i>	(Optional) Dropping due to tunneling failures
<i>hsrp-active-vmac</i>	(Optional) Dropping due to HSRP standby receiving HSRP active vmac
<i>rx-intf-down</i>	(Optional) Received Interface Down
<i>recv-glean-count</i>	(Optional) Glean requests recv count
<i>refresh-req-from-clients</i>	(Optional) Refresh requests received from clients
<i>l2rib-signals</i>	(Optional) Signals received from L2rib
<i>adds</i>	(Optional) Adds
<i>dels</i>	(Optional) Deletes
<i>timeouts</i>	(Optional) Timeouts

### Command Mode

- /exec



## show ip arp suppression-cache

```
show ip arp suppression-cache { detail [ vlan <vlan_id> ] | summary | statistics | vlan <vlan_id> | local [ vlan
<vlan_id> ] | remote [ vlan <vlan_id> ] } [ __readonly__ TABLE_arp-suppression [ TABLE_entries <ip-addr>
<age> <mac> <vlan> <physical-iod> <flag> [ <remote-vtep-addr> | <remote-vtep-v6addr> ] ] [
TABLE_summary <remote-count> <local-count> <total-count> ] [ TABLE_stats TABLE_suppressed <total>
<requests> <requests-on-l2> <gratuitous> <gratuitous-on-l2> TABLE_forwarded <total-sent> <requests-sent>
<replies-sent> <requests-on-core-sent> <replies-on-core-sent> <dropped-sent> <requests-on-l2-sent>
<replies-on-l2-sent> <requests-on-core-l2-sent> <replies-on-core-l2-sent> <dropped-l2-sent> TABLE_received
<total-recv> <requests-recv> <replies-recv> <local-requests-recv> <local-replies-recv> <gratuitous-recv>
<dropped-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-l2-recv> <dropped-l2-recv>
TABLE_entrystats <adds> <dels> ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
suppression-cache	arp-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
<i>vlan_id</i>	(Optional) Vlan
<i>__readonly__</i>	(Optional)
TABLE_arp-suppression	(Optional) IP ARP suppression-cache
TABLE_entries	(Optional) IP ARP suppression entries
<i>ip-addr</i>	(Optional) IP address
<i>age</i>	(Optional) Age
<i>mac</i>	(Optional) MAC address
<i>vlan</i>	(Optional) vlan id
<i>physical-iod</i>	(Optional) Physical iod
<i>flag</i>	(Optional) Flags

<i>remote-vtep-addr</i>	(Optional) Remote Vtep Address
TABLE_summary	(Optional) IP ARP suppression-cache Summary
<i>remote-count</i>	(Optional) Remote count
<i>local-count</i>	(Optional) Local count
<i>total-count</i>	(Optional) Total count
TABLE_stats	(Optional) Show IP ARP suppression statistics
TABLE_suppressed	(Optional) Suppressed table
<i>total</i>	(Optional) total
<i>requests</i>	(Optional) request
<i>requests-on-l2</i>	(Optional) requests-on-l2
<i>gratuitous</i>	(Optional) gratuitous
<i>gratuitous-on-l2</i>	(Optional) gratuitous-on-l2
TABLE_forwarded	(Optional) Forwarded table
<i>total-sent</i>	(Optional) total
<i>requests-sent</i>	(Optional) Requests sent on L3
<i>replies-sent</i>	(Optional) Replies sent on L3
<i>requests-on-core-sent</i>	(Optional) Request on core port
<i>replies-on-core-sent</i>	(Optional) Reply on core port
<i>dropped-sent</i>	(Optional) Dropped
<i>requests-on-l2-sent</i>	(Optional) Requests on L2
<i>replies-on-l2-sent</i>	(Optional) Replies on L2
<i>requests-on-core-l2-sent</i>	(Optional) Request on core port L2
<i>replies-on-core-l2-sent</i>	(Optional) Reply on core port L2
<i>dropped-l2-sent</i>	(Optional) Dropped on L2
TABLE_received	(Optional) Received
<i>total-recv</i>	(Optional) Total
<i>requests-recv</i>	(Optional) Requests on L3 mode
<i>replies-recv</i>	(Optional) Replies on L3 mode
<i>local-requests-recv</i>	(Optional) Local Request

<i>local-replies-recv</i>	(Optional) Local Responses
<i>gratuitous-recv</i>	(Optional) Gratuitous on L3 mode
<i>dropped-recv</i>	(Optional) Dropped on L3 mode
<i>requests-on-l2-recv</i>	(Optional) Requests on L2 mode
<i>replies-on-l2-recv</i>	(Optional) Replies on L2 mode
<i>gratuitous-l2-recv</i>	(Optional) Gratuitous on L2 mode
<i>dropped-l2-recv</i>	(Optional) Dropped on L2 mode
TABLE_entrystats	(Optional) ARP suppression-cache Local entry statistics
<i>adds</i>	(Optional) Adds
<i>dels</i>	(Optional) Deletes

**Command Mode**

- /exec

## show ip arp suppression topo-info

```
show ip arp suppression topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_suppression_topo_info [
<ip_arp_suppression_topo_id> ] [ <ip_arp_suppression_mode> ] [ <ip_arp_suppression_hmm_mode> ] } ]
```

### Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
suppression	ARP-suppression based event
topo-info	E-VPN identifier
<i>topo-id</i>	(Optional) E-VPN identifier (VLAN-ID or BD-ID)
<i>__readonly__</i>	(Optional)
<i>TABLE_ip_arp_suppression_topo_info</i>	(Optional) Show suppression topo-info
<i>ip_arp_suppression_topo_id</i>	(Optional) Show ARP suppression topo_id
<i>ip_arp_suppression_mode</i>	(Optional) Show ARP suppression mode
<i>ip_arp_suppression_hmm_mode</i>	(Optional) Show ARP suppression hmm mode

### Command Mode

- /exec

## show ip arp tunnel-statistics

```
show ip arp tunnel-statistics [ __readonly__ { TABLE_ip_arp_tunnel_stat [ <arp-tun-pkt-rcv-cnt> ] [
<arp-tun-pkt-rcv-ing-vpc> ] [ <arp-tun-pkt-rcv-ing-gpc> ] [ <arp-tun-pkt-rcv-ing-orp-vpc> ] [
<arp-tun-pkt-rcv-ing-orp-vpc-pl> ] [ <arp-tun-pkt-snd-cnt> ] [ <arp-tun-pkt-snd-snoop-cnt> ] [
<arp-tun-pkt-snd-non-local-vip-cnt> ] [ <arp-tun-pkt-snd-peer-gate-cnt> ] [ <arp-tun-pkt-snd-ing-vpc> ] [
<arp-tun-pkt-snd-ing-gpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc-pl> ] [
<arp-tun-pkt-rcv-drp-cnt> ] [ <arp-tun-pkt-snd-drp-cnt> ] [ <arp-tun-pkt-snd-drp-snd-fail-cnt> ] [
<arp-tun-pkt-rcv-drp-ver-cnt> ] [ <arp-tun-pkt-rcv-drp-pl-cnt> ] [ <arp-tun-pkt-rcv-drp-ing-non-mct> ] [
<arp-tun-pkt-rcv-drp-inv-ing-intf> ] [ <arp-tun-pkt-snd-drp-inv-ing-intf> ] [
<arp-tun-pkt-rcvdrp-inv-gpc-core-sw> ] [ <arp-tun-pkt-rcvdrp-inv-gpc-peer-sw> ] [ <arp-tun-pkt-drp-inv-mcecm>
] [ <arp-tun-pkt-im-api-fail> ] [ <arp-tun-pkt-drp-ctxt-inv> ] [ <arp-tun-pkt-drp-mct-dwn> ] [
<arp-tun-pkt-rcv-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-tunnel>
] [ <arp-tun-pkt-snd-drp-ce> ] [ <arp-tun-pkt-snd-drp-inv-gpc> ] [ <arp-tun-pkt-rcv-drp-inv-gpc> ] [
<arp-tun-pkt-sys-mcecm-key-not-found> ] } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
tunnel-statistics	Display ARP statistics for tunneled packets
__readonly__	(Optional)
TABLE_ip_arp_tunnel_stat	(Optional) ARP Tunnel statistics
<i>arp-tun-pkt-rcv-cnt</i>	(Optional) Total tunneled packets received
<i>arp-tun-pkt-rcv-ing-vpc</i>	(Optional) Tunneled packets rx for ingress vPC
<i>arp-tun-pkt-rcv-ing-gpc</i>	(Optional) Tunneled packets rx for ingress GPC
<i>arp-tun-pkt-rcv-ing-orp-vpc</i>	(Optional) Tunneled Packets rx for ingress orphan vPC
<i>arp-tun-pkt-rcv-ing-orp-vpc-pl</i>	(Optional) Tunneled Packets rx for ingress orphan vPC+
<i>arp-tun-pkt-snd-cnt</i>	(Optional) Total tunneled packets sent
<i>arp-tun-pkt-snd-snoop-cnt</i>	(Optional) Tunneled packets Sent for ARP Snoop
<i>arp-tun-pkt-snd-non-local-vip-cnt</i>	(Optional) Tunneled packets sent for Non-Local VIP
<i>arp-tun-pkt-snd-peer-gate-cnt</i>	(Optional) Tunneled Packets sent for Peer Gateway
<i>arp-tun-pkt-snd-ing-vpc</i>	(Optional) Tunneled packets tx for ingress vPC
<i>arp-tun-pkt-snd-ing-gpc</i>	(Optional) Tunneled packets tx for ingress GPC
<i>arp-tun-pkt-snd-ing-orp-vpc</i>	(Optional) Tunneled Packets tx for ingress orphan vPC

<i>arp-tun-pkt-snd-ing-orp-vpc-pl</i>	(Optional) Tunneled Packets tx for ingress orphan vPC+
<i>arp-tun-pkt-rcv-drp-cnt</i>	(Optional) Total tunnel packets rcv dropped
<i>arp-tun-pkt-snd-drp-cnt</i>	(Optional) Total tunnel packets send dropped
<i>arp-tun-pkt-snd-drp-snd-fail-cnt</i>	(Optional) Drops due to send failed
<i>arp-tun-pkt-rcv-drp-ver-cnt</i>	(Optional) Received packet with invalid version
<i>arp-tun-pkt-rcv-drp-pl-cnt</i>	(Optional) Received packet with invalid payload type
<i>arp-tun-pkt-rcv-drp-ing-non-mct</i>	(Optional) Received packet on non mct interface
<i>arp-tun-pkt-rcv-drp-inv-ing-intf</i>	(Optional) Received packet with invalid ingress port
<i>arp-tun-pkt-snd-drp-inv-ing-intf</i>	(Optional) Drop send packets for invalid ingress port
<i>arp-tun-pkt-rcvdrp-inv-gpc-core-sw</i>	(Optional) Drop rcv pkt, invalid GPC of core switch
<i>arp-tun-pkt-rcvdrp-inv-gpc-peer-sw</i>	(Optional) Drop rcv pkt, invalid GPC of peer switch
<i>arp-tun-pkt-drp-inv-mcec</i>	(Optional) Failed to retrieve vPC ID while processing
<i>arp-tun-pkt-im-api-fail</i>	(Optional) IM api failed while processing
<i>arp-tun-pkt-drp-ctxt-inv</i>	(Optional) Drop tunnel packet as context is invalid
<i>arp-tun-pkt-drp-mct-dwn</i>	(Optional) Drop tunnel packet as mct is down
<i>arp-tun-pkt-rcv-drp-mbuf-op-fail</i>	(Optional) Drop rcv packets as mbuf operation failed
<i>arp-tun-pkt-snd-drp-mbuf-op-fail</i>	(Optional) Drop send packets as mbuf operation failed
<i>arp-tun-pkt-snd-drp-tunnel</i>	(Optional) Cannot tunnel a incoming tunneled packet
<i>arp-tun-pkt-snd-drp-ce</i>	(Optional) Cannot tunnel in a CE network
<i>arp-tun-pkt-snd-drp-inv-gpc</i>	(Optional) Drop send pkt, failed in retrieving the GPC
<i>arp-tun-pkt-rcv-drp-inv-gpc</i>	(Optional) Drop rcv pkt, failed in retrieving the GPC
<i>arp-tun-pkt-sys-mcecm-key-not-found</i>	(Optional) MCEC_ID to PHY_IF_INDEX not found in DB

**Command Mode**

- /exec

## show ip arp vpc-statistics

```
show ip arp vpc-statistics [ __readonly__ { TABLE_arp_vpc_stats [ <arp-pro-drp-pull-disable> ] [
<arp-pro-drp-push-msg-disable> ] [ <arp-pro-ign-snd-pull-disable> ] [ <arp-ign-snd-push-disable> ] [
<arp-drp-im-fail> ] [ <arp-drp-mcecm-fail> ] [ <arp-drp-invalid-pc-iod> ] [ <arp-drp-pt-lookup-fail> ] [
<arp-drp-resp-fail-no-mct> ] [ <arp-drp-resp-fail> ] [ <arp-mcecm-ifidx-vpc-fail> ] [
<arp-mcecm-vpc-ifidx-fail> ] [ <arp-periodic-mcecm-ifidx-vpc-fail> ] [ <arp-resp-sent> ] [ <arp-resp-recvd>
] [ <arp-resp-recv-err> ] [ <arp-rcvd-msg> ] [ <arp-send-fail> ] [ <arp-cfs-rel-dlvry-fail> ] [
<arp-cfs-rel-dnvry-suc> ] [ <arp-pkt-vmct-drop-count> ] [ <arp-drp-pt-add-fail> ] [ <arp-drp-no-mem> ] [
<arp-drp-tmr-cre-fail> ] [ <arp-drp-add-adj-fail> ] [ <arp-off-drp-pt-lookup-fail> ] [ <arp-dont-drp-vlan-mismat>
] [ <arp-drp-svi-invalid> ] [ <arp-dont-drop-sv-down> ] [ <arp-drp-mct-down> ] [ <arp-drp-ctxt-invalid> ] [
<arp-drp-vrf-invalid> ] [ <arp-drp-l3addr-invalid> ] [ <arp-drp-l3addr-sanity-fail> ] [ <arp-drp-mac-sanity-fail>
] [ <arp-own-rtr-mac> ] [ <arp-drp-own-ipaddr> ] [ <arp-drp-own-vipaddr> ] [ <arp-drp-adj-fail> ] [
<arp-drp-subnet-mismatch> ] [ <arp-drp-adj-exist> ] [ <arp-dont-drp-ip-not-enable> ] [ <arp-drp-total-cnt>
] [ <arp-dont-drop-total-cnt> ] [ <arp-drp-inval-phy-iod> ] [ <arp-add-adj> ] [ <arp-del-adj> ] [
<arp-adj-already-exist> ] [ <arp-sync-recv-op-add-adj> ] [ <arp-sync-recv-op-del-adj> ] [
<arp-sync-push-msg-adj-cnt> ] [ <arp-sync-send-op-add-adj> ] [ <arp-sync-send-op-del-adj> ] [
<arp-sync-adj-cnt> ] [ <arp-sync-addadj-fail> ] [ <arp-sync-drp-svi-inv> ] [ <arp-sync-drp-svi-dwn> ] [
<arp-sync-drp-ctxt-inv> ] [ <arp-sync-null-adj> ] [ <arp-sync-invalid-ip> ] [ <arp-periodic-sync-adj-l2-suppl-cnt>
] [ <arp-periodic-sync-stop-bcast-pkt-sync-count> ] [ <arp-periodic-sync-vmct-stop-orphan-sync-count> ] ]
]
```

### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_arp_vpc_stats	(Optional) Arp Vpc statistics
<i>arp-mcecm-ifidx-vpc-fail</i>	(Optional) Unable to retrieve VPC id from ifidx
<i>arp-mcecm-vpc-ifidx-fail</i>	(Optional) Unable to retrieve ifidx from VPC id
<i>arp-periodic-mcecm-ifidx-vpc-fail</i>	(Optional) Unable to retrieve ifidx from VPC id during periodic sync
<i>arp-sync-recv-op-add-adj</i>	(Optional) Total adjacencies recieved from peer to add
<i>arp-sync-recv-op-del-adj</i>	(Optional) Total adjacencies received from peer to delete
<i>arp-sync-push-msg-adj-cnt</i>	(Optional) Total gross adjacencies sent periodically
<i>arp-sync-send-op-add-adj</i>	(Optional) Total adjacencies sent to peer to add
<i>arp-sync-send-op-del-adj</i>	(Optional) Total adjacencies sent to peer to delete
<i>arp-sync-adj-cnt</i>	(Optional) Total periodic sync adjacencies

<i>arp-sync-addadj-fail</i>	(Optional) Failure in adding adjacencies while periodic sync send
<i>arp-sync-drp-svi-inv</i>	(Optional) Total drops during periodic sync because of invalid svi
<i>arp-sync-drp-svi-dwn</i>	(Optional) Total drops during periodic sync because of svi down
<i>arp-sync-drp-ctxt-inv</i>	(Optional) Total drops during periodic sync because of invalid context
<i>arp-sync-null-adj</i>	(Optional) Total drops while processing syne of NULL Adjacencies
<i>arp-sync-invalid-ip</i>	(Optional) Total drops while processing sync because of NULL IP
<i>arp-periodic-sync-adj-l2-supp-cnt</i>	(Optional) Total periodic sync adjacencies added for L2 suppression case
<i>arp-periodic-sync-stop-bcast-pkt-sync-count</i>	(Optional) Total Bcast packets that was stopped sync to peer
<i>arp-pro-drp-pull-disable</i>	(Optional) Drop the received CFS pull request
<i>arp-pro-drp-push-msg-disable</i>	(Optional) Drop the received CFS push message
<i>arp-pro-ign-snd-pull-disabe</i>	(Optional) Ignore to send pull request using CFSoE
<i>arp-ign-snd-push-disable</i>	(Optional) Ignore to send push message using CFSoE
<i>arp-drp-im-fail</i>	(Optional) IM api failed while processing CFS payload
<i>arp-drp-mcecm-fail</i>	(Optional) MCECM api failed while processing CFS payload
<i>arp-drp-invalid-pc-iod</i>	(Optional) Invalid MCT port-channel iod
<i>arp-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing CFS payload
<i>arp-drp-resp-fail-no-mct</i>	(Optional) Sending CFS response failed due to invalid MCT iod
<i>arp-drp-resp-fail</i>	(Optional) Sending CFS response failed
<i>arp-resp-sent</i>	(Optional) Response sent via CFSoE
<i>arp-resp-recvd</i>	(Optional) Response received via CFSoE
<i>arp-resp-recv-err</i>	(Optional) Response received via CFSoE with errors
<i>arp-rcvd-msg</i>	(Optional) Received message via CFSoE
<i>arp-send-fail</i>	(Optional) Send message failed via CFSoE
<i>arp-cfs-rel-dlvry-fail</i>	(Optional) MCECM send api failed via CFSoE
<i>arp-cfs-rel-dmvry-suc</i>	(Optional) Send message succeeded via CFSoE
<i>arp-drp-pt-add-fail</i>	(Optional) PT add failed while processing offlist
<i>arp-drp-no-mem</i>	(Optional) Memory alloc failed while processing offlist databse
<i>arp-drp-tmr-cre-fail</i>	(Optional) Timer create failed while processing offlist database



<i>arp-drp-add-adj-fail</i>	(Optional) Adjacency addition failed while processing offlist database
<i>arp-off-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing offlist database
<i>arp-dont-drp-vlan-mismat</i>	(Optional) VLAN mismatch while processing offlist database
<i>arp-drp-svi-invalid</i>	(Optional) SVI is invalid while processing offlist database
<i>arp-dont-drop-sv-down</i>	(Optional) SVI is down while processing offlist database
<i>arp-drp-mct-down</i>	(Optional) MCT is down while processing offlist database
<i>arp-drp-ctxt-invalid</i>	(Optional) Ctxt_type is invalid while processing offlist database
<i>arp-drp-vrf-invalid</i>	(Optional) VRF is invalid while processing offlist database
<i>arp-drp-l3addr-invalid</i>	(Optional) VRF is invalid while processing offlist database
<i>arp-drp-l3addr-sanity-fail</i>	(Optional) IP address sanity failed
<i>arp-drp-mac-sanity-fail</i>	(Optional) MAC address sanity failed
<i>arp-own-rtr-mac</i>	(Optional) Our own router mac
<i>arp-drp-own-ipaddr</i>	(Optional) Our own ip address
<i>arp-drp-own-vipadd</i>	(Optional) Our own virtual ip address
<i>arp-drp-adj-fail</i>	(Optional) Create adjacency failed
<i>arp-drp-subnet-mismatch</i>	(Optional) Subnet mismatch
<i>arp-drp-adj-exist</i>	(Optional) Entry exists
<i>arp-dont-drp-ip-not-enable</i>	(Optional) IP not enabled on interface
<i>arp-drp-inval-phy-iod</i>	(Optional) Physical interface invalid
<i>arp-drp-total-cnt</i>	(Optional) Total drop count
<i>arp-dont-drop-total-cnt</i>	(Optional) Total don't drop count
<i>arp-add-adj</i>	(Optional) Total adjacency additions
<i>arp-del-adj</i>	(Optional) Total adjacency deletions
<i>arp-adj-already-exist</i>	(Optional) Total adjacencies ignored as already exist
<i>arp-pkt-vmct-drop-count</i>	(Optional) Total virtual-mct packets dropped
<i>arp-periodic-sync-vmct-stop-orphan-sync-count</i>	(Optional) Total virtual-mct orphan hosts that was stopped syncing to peer

### Command Mode

- /exec

# show ip as-path-access-list

```
show ip as-path-access-list [ <aspl-name> | <aspl-cfg-name> ] [ __readonly__ TABLE_aspl <name> <seq>
<action> <rule> ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
as-path-access-list	List AS path access lists
<i>aspl-name</i>	(Optional) AS path access list name
<i>aspl-cfg-name</i>	(Optional) Known as-path access-list name
<i>__readonly__</i>	(Optional)
TABLE_aspl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

## Command Mode

- /exec

# show ip client

```
show ip client [ <client-name> ] [ __readonly__ [ TABLE_ip_clnt [ TABLE_clnt { <clnt-name> <clnt-uuid>
<clnt-pid> <clnt-ext-pid> [ <clnt-proto> ] <clnt-ind> <clnt-cntxt-id> <clnt-mts-sap> <clnt-flg>
<clnt-msg-succ-cnt> <clnt-msg-fail-cnt> [ <clnt-recv-fn-name> <clnt-recv-fn> ] } ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
client	Display clients registered with the IP process
<i>client-name</i>	(Optional) Display information for a single IP client
__readonly__	(Optional)
TABLE_ip_clnt	(Optional)
TABLE_clnt	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-uuid</i>	(Optional)
<i>clnt-pid</i>	(Optional)
<i>clnt-ext-pid</i>	(Optional)
<i>clnt-proto</i>	(Optional)
<i>clnt-ind</i>	(Optional)
<i>clnt-cntxt-id</i>	(Optional)
<i>clnt-mts-sap</i>	(Optional)
<i>clnt-flg</i>	(Optional)
<i>clnt-msg-succ-cnt</i>	(Optional)
<i>clnt-msg-fail-cnt</i>	(Optional)
<i>clnt-recv-fn-name</i>	(Optional)
<i>clnt-recv-fn</i>	(Optional)

## Command Mode

- /exec

# show ip community-list

show ip community-list [ <cl\_name> ] [ \_\_readonly\_\_ TABLE\_cl <name> <seq> <action> <rule> ]

## Syntax Description

show	Show running system information
ip	Display IP information
community-list	List community-list
<i>cl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
TABLE_cl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

## Command Mode

- /exec

## show ip dhcp global statistics

```
show ip dhcp global statistics [ __readonly__ <pkts_processed> <pkts_recvd_through_cfsoe> <pkts_fwded>
<pkts_cfsoe_fwded> <pkts_dropped> <pkts_dropped_from_untrusted_ports>
<pkts_dropped_src_mac_chk_fail> <pkts_dropped_opt82_ins_fail> <pkts_dropped_unknown_op_intf>
<pkts_dropped_unknown_pkt> <pkts_dropped_no_trust_inf> <pkts_dropped_relay_disable>
<pkts_dropped_no_binding_entry> <pkts_dropped_interface_error> <pkts_dropped_max_hops_exceeded>
<pkts_dropped_queue_full> ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
global	DHCP global stats
statistics	Statistics related to DHCP
<i>__readonly__</i>	(Optional) Read only
<i>pkts_processed</i>	(Optional) Packets processed
<i>pkts_recvd_through_cfsoe</i>	(Optional) Packets received through cfsoe
<i>pkts_fwded</i>	(Optional) Packets forwarded
<i>pkts_cfsoe_fwded</i>	(Optional) Packets forwarded on cfsoe
<i>pkts_dropped</i>	(Optional) Total packets dropped
<i>pkts_dropped_from_untrusted_ports</i>	(Optional) Packets dropped from untrusted ports
<i>pkts_dropped_src_mac_chk_fail</i>	(Optional) Packets dropped due to MAC address check failure
<i>pkts_dropped_opt82_ins_fail</i>	(Optional) Packets dropped due to Option 82 insertion failure
<i>pkts_dropped_unknown_op_intf</i>	(Optional) Packets dropped due to o/p intf unknown
<i>pkts_dropped_unknown_pkt</i>	(Optional) Packets dropped which were unknown
<i>pkts_dropped_no_trust_inf</i>	(Optional) Packets dropped due to no trusted ports
<i>pkts_dropped_relay_disable</i>	(Optional) Packets dropped due to dhcp relay not enabled
<i>pkts_dropped_no_binding_entry</i>	(Optional) Packets dropped due to no binding entry
<i>pkts_dropped_interface_error</i>	(Optional) Packets dropped due to interface error/no interface
<i>pkts_dropped_max_hops_exceeded</i>	(Optional) Packets dropped due to max hops exceeded
<i>pkts_dropped_queue_full</i>	(Optional) Packets dropped due to queue full

**Command Mode**

- /exec

## show ip dhcp option82 suboption info interface

```
show ip dhcp option82 suboption info interface [ <intf> ] [ __readonly__ <intf_header> { TABLE_intf_option82
<intf_name> <option82_status> <suboption_string> <tx_count> } ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
option82	DHCP option82
suboption	DHCP option82 suboption
info	DHCP option82 suboption information
interface	DHCP option82 suboption information of all interfaces
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>intf_header</i>	(Optional)
TABLE_intf_option82	(Optional)
<i>intf_name</i>	(Optional)
<i>option82_status</i>	(Optional)
<i>suboption_string</i>	(Optional)
<i>tx_count</i>	(Optional)

### Command Mode

- /exec

## show ip dhcp relay

```
show ip dhcp relay [ __readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize>
<relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable> <global_smart-relay_enable>
<global_relay_trusted_enable> <relay_trusted_port_enable> <global_src_addr_hsrp_enable>
<smart_relay_intf_hdr> [ TABLE_intf <smart_relay_enabled_intf> ] <subnet_bcast_intf_hdr> [ TABLE_intf
<subnet_bcast_enabled_intf> ] <trusted_port_intf_hdr> [ TABLE_intf <trusted_port_enabled_intf> ]
<relay_src_addr_hsrp_hdr> [ TABLE_intf <src_addr_hsrp_enabled_intf> ] <relay_address_hdr> [ TABLE_intf
<intf> <relay_address> <vrf_name> ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
relay	DHCP relay
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional)
<i>relay_opt82_enable</i>	(Optional)
<i>relay_opt82_customize</i>	(Optional)
<i>relay_subopt_VPN_enable</i>	(Optional)
<i>relay_subopt_type_cisco_enable</i>	(Optional)
<i>global_smart-relay_enable</i>	(Optional)
<i>global_relay_trusted_enable</i>	(Optional)
<i>relay_trusted_port_enable</i>	(Optional)
<i>global_src_addr_hsrp_enable</i>	(Optional) V4 Relay src-addr hsrp is globally enabled or not
<i>smart_relay_intf_hdr</i>	(Optional) Smart relay interfaces header
TABLE_intf	(Optional)
<i>smart_relay_enabled_intf</i>	(Optional) smart-relay enabled interfaces
<i>subnet_bcast_intf_hdr</i>	(Optional) Subnet broadcast interfaces header
TABLE_intf	(Optional)
<i>subnet_bcast_enabled_intf</i>	(Optional) subnet_bcast enabled interfaces
<i>trusted_port_intf_hdr</i>	(Optional) Trusted port interfaces header
TABLE_intf	(Optional)



<i>trusted_port_enabled_intf</i>	(Optional) trusted_port enabled interfaces
<i>relay_src_addr_hsrp_hdr</i>	(Optional) Header for V4 Relay src-addr enabled interfaces
TABLE_intf	(Optional)
<i>src_addr_hsrp_enabled_intf</i>	(Optional) source-address hsrp enabled interfaces
<i>relay_address_hdr</i>	(Optional) relay address header
TABLE_intf	(Optional) Table for list of interfaces
<i>intf</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) vrf name

**Command Mode**

- /exec

## show ip dhcp relay address

```
show ip dhcp relay address [ interface <intf-range> ] [ __readonly__ <intf_header> [ TABLE_intf <intf2>
<relay_address> <vrf_name> ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	relay address of the interface
address	DHCP relay address
interface	(Optional) DHCP relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>intf_header</i>	(Optional) interface header
TABLE_intf	(Optional)
<i>intf2</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) VRF name

### Command Mode

- /exec

## show ip dhcp relay information trusted-sources

show ip dhcp relay information trusted-sources [ \_\_readonly\_\_ <header> [ TABLE\_intf <intf> ] ]

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	DHCP Relay
information	Relay information
trusted-sources	Relay Trusted Sources
__readonly__	(Optional) Read only
TABLE_intf	(Optional) trusted interface table
<i>header</i>	(Optional) interface header
<i>intf</i>	(Optional) interface name

### Command Mode

- /exec

## show ip dhcp relay statistics

```
show ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name>
] } ] [ __readonly__ [ <msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_offer>
<offer_rx_pkts> <offer_tx_pkts> <offer_drops> <msg_type_str_request> <request_rx_pkts> <request_tx_pkts>
<request_drops> <msg_type_str_ack> <ack_rx_pkts> <ack_tx_pkts> <ack_drops> <msg_type_str_release>
<release_rx_pkts> <release_tx_pkts> <release_drops> <msg_type_str_decline> <decline_rx_pkts>
<decline_tx_pkts> <decline_drops> <msg_type_str_inform> <inform_rx_pkts> <inform_tx_pkts>
<inform_drops> <msg_type_str_nack> <nack_rx_pkts> <nack_tx_pkts> <nack_drops> <line>
<msg_type_str_total> <total_rx_pkts> <total_tx_pkts> <total_drops> <line_x> ] [ <server_consolidated_hdr>
[ TABLE_server_info <server_helper_addr> <server_vrf> <server_total_request> <server_total_response>
] <line_y> ] [ <l3_fwd_hdr> <l3_fwd_rx_pkts> <l3_fwd_tx_pkts> <l3_fwd_drops> <non_dhcp_hdr>
<non_dhcp_rx_pkts> <non_dhcp_tx_pkts> <non_dhcp_drops> <drop_hdr> <drop_validation_fail>
<drop_relay_disable> <drop_invalid_msg_type> <drop_intf_err> <drop_tx_sock_err>
<drop_tx_fail_client_intf> <drop_unknown_op_intf> <drop_l3_unknown_op_intf> <drop_max_hops>
<drop_opt82_insert_fail> <drop_malformed> <drop_mct_drop> <drop_untrusted_relay_intf> ] [
<server_discover> <server_request> <server_decline> <server_release> <server_inform> <server_ack>
<server_nack> <server_offer> <server_resp_hdr> <drop_unknown> <server_req_hdr> ] <footer> ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
serverip	(Optional) Helper address
<i>ip-addr-val</i>	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
<i>vrf-name</i>	(Optional) VRF name
__readonly__	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional) dhcp message statistics header
<i>msg_type_str</i>	(Optional) dhcp message type
<i>rx_pkts</i>	(Optional) received dhcp packets
<i>tx_pkts</i>	(Optional) forwarded dhcp packets
<i>drops</i>	(Optional) dhcp packet drops

<i>msg_type_str_offer</i>	(Optional) dhcp message type
<i>offer_rx_pkts</i>	(Optional) received dhcp packets
<i>offer_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>offer_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_request</i>	(Optional) dhcp message type
<i>request_rx_pkts</i>	(Optional) received dhcp packets
<i>request_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>request_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_ack</i>	(Optional) dhcp message type
<i>ack_rx_pkts</i>	(Optional) received dhcp packets
<i>ack_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>ack_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_release</i>	(Optional) dhcp message type
<i>release_rx_pkts</i>	(Optional) received dhcp packets
<i>release_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>release_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_decline</i>	(Optional) dhcp message type
<i>decline_rx_pkts</i>	(Optional) received dhcp packets
<i>decline_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>decline_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_inform</i>	(Optional) dhcp message type
<i>inform_rx_pkts</i>	(Optional) received dhcp packets
<i>inform_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>inform_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_nack</i>	(Optional) dhcp message type
<i>nack_rx_pkts</i>	(Optional) received dhcp packets
<i>nack_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>nack_drops</i>	(Optional) dhcp packet drops
<i>line</i>	(Optional)

<i>msg_type_str_total</i>	(Optional) total dhcp packets of all message types
<i>total_rx_pkts</i>	(Optional) total forwarded dhcp packets
<i>total_tx_pkts</i>	(Optional) total forwarded dhcp packets
<i>total_drops</i>	(Optional) total dhcp drops
<i>line_x</i>	(Optional)
<i>server_consolidated_hdr</i>	(Optional) DHCP server stats
TABLE_server_info	(Optional)
<i>server_helper_addr</i>	(Optional) dhcp server address
<i>server_vrf</i>	(Optional) dhcp server vrf
<i>server_total_request</i>	(Optional) total dhcp requests to server
<i>server_total_response</i>	(Optional) total dhcp responses from server
<i>line_y</i>	(Optional)
<i>l3_fwd_hdr</i>	(Optional) DHCP l3 forward header
<i>l3_fwd_rx_pkts</i>	(Optional) DHCP l3 received packets
<i>l3_fwd_tx_pkts</i>	(Optional) DHCP l3 forwarded packets
<i>l3_fwd_drops</i>	(Optional) DHCP l3 forward drops
<i>non_dhcp_hdr</i>	(Optional) non dhcp packets header
<i>non_dhcp_rx_pkts</i>	(Optional) total non dhcp packets received
<i>non_dhcp_tx_pkts</i>	(Optional) total non dhcp packets forwarded
<i>non_dhcp_drops</i>	(Optional) total non dhcp drops
<i>drop_hdr</i>	(Optional) total dhcp drops in various scenarios
<i>drop_validation_fail</i>	(Optional) drops due to option 82 validation failed
<i>drop_relay_disable</i>	(Optional) drops due to dhcp relay not enabled
<i>drop_invalid_msg_type</i>	(Optional) drops due to invalid message type
<i>drop_intf_err</i>	(Optional) drops due to interface error
<i>drop_tx_sock_err</i>	(Optional) tx failure towards server
<i>drop_tx_fail_client_intf</i>	(Optional) drops due to Tx failure towards client
<i>drop_unknown_op_intf</i>	(Optional) Unknown output interface
<i>drop_l3_unknown_op_intf</i>	(Optional) unknown vrf interface for server

<i>drop_max_hops</i>	(Optional) drops due to max hop exceeded
<i>drop_opt82_insert_fail</i>	(Optional) Insertion of option 82 failed
<i>drop_malformed</i>	(Optional) drops due to packet malformed
<i>drop_mct_drop</i>	(Optional) drops through mct
<i>drop_untrusted_relay_intf</i>	(Optional) drops due to untrusted relay interface
<i>server_discover</i>	(Optional) DHCP discover messages relayed to server
<i>server_request</i>	(Optional) DHCP request messages relayed to server
<i>server_decline</i>	(Optional) DHCP decline messages relayed to server
<i>server_release</i>	(Optional) DHCP release messages relayed to server
<i>server_inform</i>	(Optional) DHCP inform messages relayed to server
<i>server_ack</i>	(Optional) DHCP ack messages relayed from server
<i>server_nack</i>	(Optional) DHCP nack messages relayed from server
<i>server_offer</i>	(Optional) DHCP offer messages relayed from server
<i>server_resp_hdr</i>	(Optional) DHCP server response header
<i>drop_unknown</i>	(Optional) drops due to Unknown Failure
<i>server_req_hdr</i>	(Optional) DHCP server request header
<i>footer</i>	(Optional) footer line

**Command Mode**

- /exec

## show ip dhcp snooping

```
show ip dhcp snooping [ __readonly__ <snoop_service_enable> <snoop_gbl_enable> <snoop_vlan_enable>
<snoop_oper_vlan_enable> <snoop_opt82_enable> <snoop_hwaddr_verify_enable> <snoop_hdr> [ {
TABLE_intf_entry <intf_entry_if_index> <intf_entry_trust_dhcp> <intf_entry_pkt_limit> } ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
<i>__readonly__</i>	(Optional) Read only
<i>snoop_service_enable</i>	(Optional)
<i>snoop_gbl_enable</i>	(Optional)
<i>snoop_vlan_enable</i>	(Optional)
<i>snoop_oper_vlan_enable</i>	(Optional)
<i>snoop_opt82_enable</i>	(Optional)
<i>snoop_hwaddr_verify_enable</i>	(Optional)
<i>snoop_hdr</i>	(Optional)
TABLE_intf_entry	(Optional)
<i>intf_entry_if_index</i>	(Optional)
<i>intf_entry_trust_dhcp</i>	(Optional) is DHCP snooping trusted on the interface
<i>intf_entry_pkt_limit</i>	(Optional) limit for DHCP packets per second on the interface

### Command Mode

- /exec



# show ip dhcp snooping binding

show ip dhcp snooping binding [ <ip> | <mac> | vlan <vlan-range> |

## Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
binding	DHCP snooping bindings
<i>ip</i>	(Optional) Binding entry IP address
<i>mac</i>	(Optional) Binding entry MAC address
vlan	(Optional) Binding entry VLAN
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

## Command Mode

- /exec

# show ip dhcp snooping statistics

```
show ip dhcp snooping statistics [ { vlan <vlan-id> interface <intf> } |
```

## Syntax Description

<i>vlan-id</i>	(Optional) ]
show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
snooping	DHCP snooping
statistics	Statistics related to DHCP
vlan	(Optional) VLAN
interface	(Optional) input interface
<i>intf</i>	(Optional) interface

## Command Mode

- /exec

# show ip dhcp status

show ip dhcp status [ *\_\_readonly\_\_* [ *<current\_cli\_op>* ] [ *<last\_cli\_op>* *<last\_cli\_stat>* ] ]

## Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
status	Current CLI command and execution status of the last command
<i>__readonly__</i>	(Optional) Read only
<i>current_cli_op</i>	(Optional) current cli operation
<i>last_cli_op</i>	(Optional) last cli operation
<i>last_cli_stat</i>	(Optional) last cli status

## Command Mode

- /exec

## show ip dns source-interface

```
show ip dns source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipdnsvrf
<vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipdnsvrf	(Optional) source interface of dns given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec

## show ip dns source-interface vrf all

```
show ip dns source-interface vrf all [ __readonly__ [ { TABLE_ipdns <vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipdns	(Optional) source interface of dns
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec

## show ip eigrp

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <eigrp_ptag> <instance_num> <state> <authen_md5>
<authen_keychain> <metric_weight_k1> <metric_weight_k2> <metric_weight_k3> <metric_weight_k4>
<metric_weight_k5> [ <metric_weight_k6> <metric_rib_scale> ] <metric_version> <eigrp_proto> {
<multicast_group> | <multicast_groupv6> } <int_distance> <ext_distance> <max_paths> <active_interval>
<num_interfaces> <num_lo_interfaces> <num_pass_interfaces> <num_peers> [ { TABLE_redist
<redist_srcproto> <redist_routemap> } ] <tmap_route_map> [ <tmap_filter_configured> ]
<default_info_originate> [ <default_info_route_map> <default_info_originate_always> ] <graceful_restart>
<stub_configured> [ <stub_option_connected> <stub_option_summary> <stub_option_redist>
<stub_option_leak_map> <stub_option_receive_only> ] <isolate> <nsf_converge_time>
<nsf_converge_expires> <nsf_route_hold_time> <nsf_route_hold_expires> <nsf_signal_time>
<nsf_signal_expires> <redist_max_prefix> [ <redist_max_prefix_mode> <redist_prefix_count>
<redist_prefix_max> <redist_limit_threshold> <redist_limit_retry_count> <redist_limit_retry_max>
<redist_limit_timer_left> <redist_limit_timeout> ] <bfd_enabled> <eigrp_mode> [ { TABLE_command_q
<addr> <mask> } ] <await_redist_proto_converge> <suppress_fib_pending> <nsf_in_progress> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional) AS Number table
<i>asn</i>	(Optional) AS number
<i>router_id</i>	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>eigrp_ptag</i>	(Optional) Process-tag for EIGRP
<i>instance_num</i>	(Optional) EIGRP Instance Number

<i>state</i>	(Optional) EIGRP Process Status
<i>authen_md5</i>	(Optional) Authentication Mode
<i>authen_keychain</i>	(Optional) Authentication Key-Chain
<i>metric_weight_k1</i>	(Optional) DUAL metric k1
<i>metric_weight_k2</i>	(Optional) DUAL metric k2
<i>metric_weight_k3</i>	(Optional) DUAL metric k3
<i>metric_weight_k4</i>	(Optional) DUAL metric k4
<i>metric_weight_k5</i>	(Optional) DUAL metric k5
<i>metric_weight_k6</i>	(Optional) DUAL metric k6
<i>metric_rib_scale</i>	(Optional) RIB Scale
<i>metric_version</i>	(Optional) Metric version
<i>eigrp_proto</i>	(Optional) IP Protocol number
<i>multicast_group</i>	(Optional) Multicast Group Address
<i>int_distance</i>	(Optional) Internal Administrative Distance
<i>ext_distance</i>	(Optional) External Administrative Distance
<i>max_paths</i>	(Optional) Maximum paths allowed for a dndb
<i>active_interval</i>	(Optional) Active Interval in minutes
<i>num_interfaces</i>	(Optional) Number of EIGRP interfaces configured under this AS
<i>num_lo_interfaces</i>	(Optional) Number of EIGRP loopback interfaces configured under this AS
<i>num_pass_interfaces</i>	(Optional) Number of EIGRP Passive interfaces configured under this AS
<i>num_peers</i>	(Optional) Number of EIGRP peers
TABLE_redist	(Optional) Redistribution Table
<i>redist_srcproto</i>	(Optional) Source protocol of the redistributed route
<i>redist_routemap</i>	(Optional) Route-map used in this redistribution
<i>tmap_route_map</i>	(Optional) Tablemap Policy name
<i>tmap_filter_configured</i>	(Optional) Tablemap filter configured?
<i>default_info_originate</i>	(Optional) Default-info Policy Originate?

<i>default_info_route_map</i>	(Optional) Default-info Policy name
<i>default_info_originate_always</i>	(Optional) Default-info Originate always?
<i>graceful_restart</i>	(Optional) Graceful restart configured?
<i>stub_configured</i>	(Optional) Stub-Routing configured?
<i>stub_option_connected</i>	(Optional) Advertise connected routes?
<i>stub_option_summary</i>	(Optional) Advertise summary routes?
<i>stub_option_redist</i>	(Optional) Advertise redistributed routes?
<i>stub_option_leak_map</i>	(Optional) Allow routes permitted by leak-map?
<i>stub_option_receive_only</i>	(Optional) Configured as receive only?
<i>isolate</i>	(Optional) Isolate is enabled
<i>nsf_converge_time</i>	(Optional) NSF converge time limit
<i>nsf_converge_expires</i>	(Optional) NSF converge time expires
<i>nsf_route_hold_time</i>	(Optional) NSF route-hold time limit
<i>nsf_route_hold_expires</i>	(Optional) NSF route-hold time expires
<i>nsf_signal_time</i>	(Optional) NSF signal time limit
<i>nsf_signal_expires</i>	(Optional) NSF signal time expires
<i>redist_max_prefix</i>	(Optional) Redistributed max-prefix enabled?
<i>redist_max_prefix_mode</i>	(Optional) Redistributed max-prefix mode
<i>redist_prefix_count</i>	(Optional) Redistributed prefix count
<i>redist_prefix_max</i>	(Optional) Redistributed prefix max
<i>redist_limit_threshold</i>	(Optional) Redistributed max-prefix warning threshold
<i>redist_limit_retry_count</i>	(Optional) Redistributed max-prefix retries attempted
<i>redist_limit_retry_max</i>	(Optional) Redistributed max-prefix retries allowed
<i>redist_limit_timer_left</i>	(Optional) Redistributed max-prefix timer left
<i>redist_limit_timeout</i>	(Optional) Redistributed max-prefix timeout
<i>bfd_enabled</i>	(Optional) Is BFD enabled?
<i>eigrp_mmode</i>	(Optional) EIGRP MMODE initialized?
TABLE_command_q	(Optional) Network commands table
<i>addr</i>	(Optional) IP address



<i>mask</i>	(Optional) Mask length
<i>await_redist_proto_converge</i>	(Optional) Await-Redist-proto-convergence configured?
<i>suppress_fib_pending</i>	(Optional) Suppress-FIB-Pending configured?
<i>nsf_in_progress</i>	(Optional) NSF in progress?

**Command Mode**

- /exec

## show ip eigrp accounting

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] accounting [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <total_prefix> <redist_state> <redist_count>
<restart_count> <acct_timer> [ TABLE_peer { <p_ipaddr> | <p_ipv6addr> } <p_state> <p_ifname>
<p_prefix_count> <p_restart_count> <p_acct_timer> ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
accounting	IP-EIGRP Accounting
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
<i>router_id</i>	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>total_prefix</i>	(Optional) Total prefix count (Aggregate)
<i>redist_state</i>	(Optional) State of redistributed prefixes
<i>redist_count</i>	(Optional) Number of redistributed prefixes
<i>restart_count</i>	(Optional) Number of times the prefix was suspended
<i>acct_timer</i>	(Optional) Accounting timer
TABLE_peer	(Optional) Peer (Prefix) table
<i>p_ipaddr</i>	(Optional) Peer IP addr

<i>p_state</i>	(Optional) Peer state
<i>p_ifname</i>	(Optional) Peering interface
<i>p_prefix_count</i>	(Optional) Number of Prefixes learnt from the peer
<i>p_restart_count</i>	(Optional) Number of times the prefix was suspended
<i>p_acct_timer</i>	(Optional) Peer accounting timer

**Command Mode**

- /exec

## show ip eigrp interfaces

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] interfaces [ detail ] [ <interface> ] [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf <vrf> [ TABLE_if <ifname>
<peer_count> <xmitq_unrel> <xmitq_rel> <mean_srtt> <send_intvl_unrel> <send_intvl_rel>
<mcast_flow_delay> <pending_routes> [ <hello_intvl> <holdtime_intvl> <next_xmit_serno>
<packetize_pending> <mcasts_sent_unrel> <mcasts_sent_rel> <ucasts_sent_unrel> <ucasts_sent_rel>
<mcast_exceptions> <cr_packets> <acks_suppressed> <retrans_sent> <out_of_seq_rcvd> <stub_interface>
<nexthop_self> <auth_mode_md5> <auth_key_chain> <use_multicast> <classic_metric_peers>
<wide_metric_peers> <bfd_enabled> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
interfaces	IP-EIGRP interfaces
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>interface</i>	(Optional) Interface
brief	(Optional) Show summary information only
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_if	(Optional) Interface table
<i>ifname</i>	(Optional) Interface name
<i>peer_count</i>	(Optional) Number of Peer on this interface

<i>xmitq_unrel</i>	(Optional) Xmit Q (unreliable) count
<i>xmitq_rel</i>	(Optional) Xmit Q (reliable) count
<i>mean_srtt</i>	(Optional) Mean of all peer SRTTs
<i>send_intvl_unrel</i>	(Optional) Base packet gap, per queue (unreliable)
<i>send_intvl_rel</i>	(Optional) Base packet gap, per queue (reliable)
<i>mcast_flow_delay</i>	(Optional) Last delay for Multicast flow control timer
<i>pending_routes</i>	(Optional) Pending routes on the interface
<i>hello_intvl</i>	(Optional) Configured hello interval for interface
<i>holdtime_intvl</i>	(Optional) Configured holdtime interval for interface
<i>next_xmit_serno</i>	(Optional) Next xmit serial number
<i>packetize_pending</i>	(Optional) Packetization pending?
<i>mcasts_sent_unrel</i>	(Optional) Number of Multicasts sent (unreliable)
<i>mcasts_sent_rel</i>	(Optional) Number of Multicasts sent (reliable)
<i>ucasts_sent_unrel</i>	(Optional) Number of Unicasts sent (unreliable)
<i>ucasts_sent_rel</i>	(Optional) Number of Unicasts sent (reliable)
<i>mcast_exceptions</i>	(Optional) Multicast exceptions (Count of multicasts sent as unicasts)
<i>cr_packets</i>	(Optional) Count of Multicasts sent with CR
<i>acks_suppressed</i>	(Optional) Count of suppressed ACK packets
<i>retrans_sent</i>	(Optional) Count of Retransmissions sent
<i>out_of_seq_rcvd</i>	(Optional) Count of packets received Out-of-Sequence
<i>stub_interface</i>	(Optional) All Peers are stubbed?
<i>nexthop_self</i>	(Optional) should retain next-hop?
<i>auth_mode_md5</i>	(Optional) MD5 Authentication enabled?
<i>auth_key_chain</i>	(Optional) Authentication key-chain
<i>use_multicast</i>	(Optional) Use Multicast?
<i>classic_metric_peers</i>	(Optional) Classical metric peers
<i>wide_metric_peers</i>	(Optional) Wide metric peers
<i>bfd_enabled</i>	(Optional) BFD enabled

**Command Mode**

- /exec

## show ip eigrp traffic

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> <hellos_sent> <hellos_rcvd> <updates_sent> <updates_rcvd>
<queries_sent> <queries_rcvd> <replies_sent> <replies_rcvd> <acks_sent> <acks_rcvd> <max_inqueue_depth>
<inqueue_drops> <sia_queries_sent> <sia_queries_rcvd> <sia_replies_sent> <sia_replies_rcvd> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
traffic	IP-EIGRP Traffic Statistics
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>hellos_sent</i>	(Optional) Number of Hellos sent
<i>hellos_rcvd</i>	(Optional) Number of Hellos received
<i>updates_sent</i>	(Optional) Number of Updates sent
<i>updates_rcvd</i>	(Optional) Number of Updates received
<i>queries_sent</i>	(Optional) Number of Queries sent
<i>queries_rcvd</i>	(Optional) Number of Queries received
<i>replies_sent</i>	(Optional) Number of Replies sent
<i>replies_rcvd</i>	(Optional) Number of Replies received

<i>acks_sent</i>	(Optional) Number of ACKs sent
<i>acks_rcvd</i>	(Optional) Number of ACKs received
<i>max_inqueue_depth</i>	(Optional) Input queue high water mark
<i>inqueue_drops</i>	(Optional) Input queue drops
<i>sia_queries_sent</i>	(Optional) Number of SIA queries sent
<i>sia_queries_rcvd</i>	(Optional) Number of SIA queries received
<i>sia_replies_sent</i>	(Optional) Number of SIA replies sent
<i>sia_replies_rcvd</i>	(Optional) Number of SIA replies received

**Command Mode**

- /exec



## show ip extcommunity-list

show ip extcommunity-list [ <extcl\_name> ] [ \_\_readonly\_\_ TABLE\_extcl <name> <action> <rule> ]

### Syntax Description

show	Show running system information
ip	Display IP information
extcommunity-list	List extcommunity-list
<i>extcl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
TABLE_extcl	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

### Command Mode

- /exec

# show ip fib distribution

show ip fib distribution [ pauz | rezum ]

## Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution information
pauz	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
rezum	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec

# show ip fib distribution clients

show ip fib distribution clients [ \_\_readonly\_\_ <id><pid><name><shms><shme><shmn> ]

## Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
clients	unicast client information
__readonly__	(Optional)

## Command Mode

- /exec

## show ip fib distribution mroute

```
show ip fib distribution mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <id> ] [ __readonly__
TABLE_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <table-wildcard> ] [ <total-num-groups> ] [
TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [
<num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr> ] [ <source-len> ] [
<group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts> ] [ <stats-bytes> ] [
<oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip>
] [ <next-hop> ] ] ] ]
```

### Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
mroute	MFDM IP multicast routing table
<i>group</i>	(Optional) IPv4 Multicast Group Address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
<i>source</i>	(Optional) IPv4 Source Address
table	(Optional) Specify Multicast Routing Table
<i>id</i>	(Optional) Multicast Routing Table Identifier
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>table-name</i>	(Optional)
<i>table-id</i>	(Optional)
<i>table-wildcard</i>	(Optional)
<i>total-num-groups</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>num-star-g-route</i>	(Optional)
<i>num-sg-route</i>	(Optional)
<i>num-star-g-prfx</i>	(Optional)

<i>num-group-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>source-addr</i>	(Optional)
<i>source-len</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>group-len</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rpf-intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oiflist-index</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>mti-src-intf</i>	(Optional)
<i>mti-grp-ip</i>	(Optional)
<i>mti-src-ip</i>	(Optional)
<i>next-hop</i>	(Optional)

**Command Mode**

- /exec

# show ip fib distribution multicast

```
show ip fib distribution multicast [ messages ] [ __readonly__ <fibstate> <slot> <accepting_routes>
<num_accepting_routes> ]
```

## Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	(Optional) Outstanding Message Information
__readonly__	(Optional)
<i>fibstate</i>	(Optional) IP Multicast FIB process state
<i>slot</i>	(Optional) Slot
<i>accepting_routes</i>	(Optional) Indicates whether FIB is accepting routes
<i>num_accepting_routes</i>	(Optional) Number of fibs accepting routes

## Command Mode

- /exec

## show ip fib distribution state

```
show ip fib distribution state [ __readonly__ <slot> <state><tc><tpre><tv4ac><tv6ac> { TABLE_fib_state
<tid><tafi><prc><pc><tname> } ]
```

### Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
state	unicast fib state info
__readonly__	(Optional)
<i>slot</i>	(Optional) slot number
TABLE_fib_state	(Optional) fib-state table

### Command Mode

- /exec

# show ip fib mroute

```
show ip fib mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ] [
__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif>
<rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count>
<refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes> ]
```

## Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
<i>source</i>	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
<i>table-id</i>	(Optional) table-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count



<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

**Command Mode**

- /exec

## show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <pfx> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

### Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tableid</i>	(Optional) table identifier
<i>prefix-count</i>	(Optional) total number of prefix in VRF
<i>px</i>	(Optional) ipv4 prefix
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route-count</i>	(Optional) total number of routes in VRF
<i>path-count</i>	(Optional) total number of paths in VRF
<i>mask-length</i>	(Optional) length of mask
<i>routes-per-mask</i>	(Optional)

### Command Mode

- /exec

# show ip ftp source-interface

```
show ip ftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrf	(Optional) source interface of ftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

## Command Mode

- /exec

## show ip ftp source-interface vrf all

```
show ip ftp source-interface vrf all [ __readonly__ [ { TABLE_ipftp <vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipftp	(Optional) source interface of ftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec

## show ip http source-interface

```
show ip http source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_iphttpvrf
<vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iphttpvrf	(Optional) source interface of http given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec

## show ip http source-interface vrf all

```
show ip http source-interface vrf all [ __readonly__ [ { TABLE_iphttp <vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iphttp	(Optional) source interface of http
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec

## show ip igmp groups

```
show ip igmp { groups | route } [ <source> [ <group> ] | <group> [ <source> ] ] [ <interface> ] [ summary ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ summary-old ] [ __readonly__ [ TABLE_vrf [ <if-name>
] [ <vrfname> ] [ <entry-count> ] [ <group-addr> ] [ <sourceaddress> ] [ TABLE_group [ <group-addr> ] [
<group-type> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] [ TABLE_source [ <source-addr> ]
[ <group-type> ] [ <translate> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] [ <vrf-cntxt> ] [
<g-count> ] [ <sg-count> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
groups	Display IGMP attached group membership information
route	Display IGMP attached group membership information
<i>group</i>	(Optional) Multicast IP address of single group to display
<i>source</i>	(Optional) Source IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on single interface name
summary	(Optional) Display group summary
summary-old	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrfname</i>	(Optional)
<i>if-name</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>sourceaddress</i>	(Optional)
TABLE_group	(Optional)



<i>group-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>translate</i>	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
<i>vrf-cntxt</i>	(Optional)
<i>g-count</i>	(Optional)
<i>sg-count</i>	(Optional)

### Command Mode

- /exec

## show ip igmp interface

```
show ip igmp interface [ <interface> ] [ brief ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ ] [ TABLE_vrf <vrf> [ <entry-count> ] [ [ TABLE_brief [ <if-name> ] [ <addr> ] [ <querier> ] [
<mc> ] [ <ver> ] ] [ TABLE_if <if-name> [ <if-status> ] [ <ip-sum> ] [ <addr> ] [ <querier> ] [ <q-ver> ] [
<next-query> ] [ <expires> ] [ <mc> ] [ <ver> ] [ <host-ver> ] [ <q> ] [ <cqi> ] [ <mrt> ] [ <cmrt> ] [ <sqi>
] [ <csqi> ] [ <sqc> ] [ <lmprt> ] [ <lmqc> ] [ <gt> ] [ <cg> ] [ <qt> ] [ <cqt> ] [ <uri> ] [ <rv> ] [ <crv> ]
] [ <rll> ] [ <rc> ] [ <il> ] [ <join-group-map> ] [ <static-group-map> ] [ <host-proxy> ] [
<host-proxy-group-map> ] [ <un-solicited> ] [ <unsoint> ] [ <v1rr> ] [ <v2qs> ] [ <v2qr> ] [ <v2rs> ] [ <v2rr>
] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [ <v2gqdest> ] [ <v3gqdest> ] [ <cse> ] [
<ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ] [ <v1gdam> ] [ <v2gdam> ] [ <v3dai> ]
[ <ra> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
interface	Display IGMP interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>entry-count</i>	(Optional)
TABLE_brief	(Optional)
<i>if-name</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>mc</i>	(Optional)

<i>ver</i>	(Optional)
TABLE_if	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>ip-sum</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>q-ver</i>	(Optional)
<i>next-query</i>	(Optional)
<i>expires</i>	(Optional)
<i>mc</i>	(Optional)
<i>ver</i>	(Optional)
<i>host-ver</i>	(Optional)
<i>qi</i>	(Optional)
<i>cqi</i>	(Optional)
<i>mrt</i>	(Optional)
<i>cmrt</i>	(Optional)
<i>sqi</i>	(Optional)
<i>csqi</i>	(Optional)
<i>sqc</i>	(Optional)
<i>lmmrt</i>	(Optional)
<i>lmqc</i>	(Optional)
<i>gt</i>	(Optional)
<i>cgt</i>	(Optional)
<i>qt</i>	(Optional)
<i>cqt</i>	(Optional)
<i>uri</i>	(Optional)
<i>rv</i>	(Optional)
<i>crv</i>	(Optional)

<i>rl</i>	(Optional)
<i>rc</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2qs</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>v3qs</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v3rs</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v2ggdest</i>	(Optional)
<i>v3ggdest</i>	(Optional)
<i>cse</i>	(Optional)
<i>ple</i>	(Optional)
<i>lsip</i>	(Optional)
<i>scf</i>	(Optional)
<i>qnq</i>	(Optional)
<i>rvm</i>	(Optional)
<i>qvm</i>	(Optional)
<i>uit</i>	(Optional)
<i>v1gdam</i>	(Optional)
<i>v2gdam</i>	(Optional)
<i>v3dai</i>	(Optional)
<i>ra</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)

<i>host-proxy-group-map</i>	(Optional)
<i>il</i>	(Optional)
<i>host-proxy</i>	(Optional)
<i>un-solicited</i>	(Optional)
<i>unsoint</i>	(Optional)

**Command Mode**

- /exec

## show ip igmp local-groups

```
show ip igmp local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <vrf-name> ] [ TABLE_if [ <if-name> ] [ TABLE_grp [ <group-addr> ] [ TABLE_src [
<source-addr> ] [ <last-reported> ] [ <local-group> ] [ <static-oif> ] [ <report-only> ] [ <host-proxy> ] ] ] ]
] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
local-groups	Display IGMP local group membership information
<i>interface</i>	(Optional) Display group membership on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_if	(Optional)
<i>if-name</i>	(Optional)
TABLE_grp	(Optional)
<i>group-addr</i>	(Optional)
TABLE_src	(Optional)
<i>source-addr</i>	(Optional)
<i>last-reported</i>	(Optional)
<i>local-group</i>	(Optional)
<i>static-oif</i>	(Optional)
<i>report-only</i>	(Optional)
<i>host-proxy</i>	(Optional)

**Command Mode**

- /exec

## show ip igmp policy statistics reports

```
show ip igmp policy statistics reports [ <interface> ] [ __readonly__ [ TABLE_interface [ <if> ] [
TABLE_routemap [ <name> ] [ <action> ] [ <seq_num> ] [ TABLE_cmd [ <command> ] [ <compare_count>
] [ <match_count> ] ] ] [ <total_accept_count> ] [ <total_reject_count> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Show IGMP related information
policy	Policy related information
statistics	Policy statistics
reports	IGMP reports
<i>interface</i>	(Optional) Interface to display statistics for
<i>__readonly__</i>	(Optional)
<i>TABLE_interface</i>	(Optional)
<i>if</i>	(Optional)
<i>TABLE_routemap</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
<i>TABLE_cmd</i>	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

### Command Mode

- /exec



## show ip igmp snooping

```
show ip igmp snooping [ { vlan <vlan> | bridge-domain <bdid> } ] [ __readonly__ [ <vdc> ] [ <enabled> ] [ <omf> ] [ <grepsup> ] [ <gv3repsup> ] [ <glinklocalgrpsup> ] { TABLE_vlan <vlan-id> [ <description> ] [ <snoop-on> ] [ <qa> ] [ <qv> ] [ <qi> ] [ <qlmqi> ] [ <rv> ] [ <sq> ] [ <sqr> ] [ <eht> ] [ <fl> ] [ <repsup> ] [ <v3repsup> ] [ <vlinklocalgrpsup> ] [ <rpc> ] [ <gc> ] [ TABLE_active_ports [ <actvports> ] ] [ <lkupmode> ] [ <omf_enabled> ] [ <reportfloodenable> ] [ <reportfloodall> ] [ TABLE_intf <if-name> ] [ <leavegroupaddress> ] } ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>vdc</i>	(Optional)
<i>enabled</i>	(Optional)
<i>omf</i>	(Optional)
<i>grepsup</i>	(Optional)
<i>gv3repsup</i>	(Optional)
<i>glinklocalgrpsup</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>description</i>	(Optional) description, if any
<i>snoop-on</i>	(Optional)
<i>qa</i>	(Optional)
<i>qv</i>	(Optional)
<i>qi</i>	(Optional)

<i>qlmqi</i>	(Optional)
<i>rv</i>	(Optional)
<i>sq</i>	(Optional)
<i>sqr</i>	(Optional)
<i>eht</i>	(Optional)
<i>fl</i>	(Optional)
<i>repsup</i>	(Optional)
<i>v3repsup</i>	(Optional)
<i>vlinklocalgrpsup</i>	(Optional)
<i>rpc</i>	(Optional)
<i>gc</i>	(Optional)
TABLE_active_ports	(Optional)
<i>actvports</i>	(Optional)
<i>lkupmode</i>	(Optional)
<i>omf_enabled</i>	(Optional)
<i>reportfloodenable</i>	(Optional)
<i>reportfloodall</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>leavegroupaddress</i>	(Optional)

**Command Mode**

- /exec



<i>expires</i>	(Optional)
<i>cfs-flag</i>	(Optional)
<i>native-flag</i>	(Optional)
<i>delete-pending</i>	(Optional)
<i>cfs-update-pending</i>	(Optional)

**Command Mode**

- /exec

## show ip igmp snooping filter details

```
show ip igmp snooping filter [ vlan <vlan_id> ] details [ __readonly__ { TABLE_vlanid <vlan-id>
<access-group> <group-channels-limit> <igmp-min-ver> } ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
filter	Shows filter policy configuration
vlan	(Optional) Only for the specified VLAN
<i>vlan_id</i>	(Optional) VLAN ID
details	Shows different Filter configurations
<i>__readonly__</i>	(Optional)
TABLE_vlanid	(Optional)
<i>vlan-id</i>	(Optional)
<i>access-group</i>	(Optional)
<i>group-channels-limit</i>	(Optional)
<i>igmp-min-ver</i>	(Optional)

### Command Mode

- /exec

## show ip igmp snooping groups

```
show ip igmp snooping [ otv | remote ] groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ vlan
<vlan> | bridge-domain <bdid> ] [ detail ] [ summary ] [ __readonly__ [ TABLE_vlan [ <vlan-id> ] [ <rports>
] [ <rtrPortFlag> ] [ TABLE_port <if-name> ] [ TABLE_rtrports <rport-if-name> ] [ <raddr> ] [ TABLE_source
<source> ] [ TABLE_group <addr> [ <g-mfdm> ] [ <ver> ] [ <old-host> ] [ <raddr> ] [ <static> ] [ <dynamic>
] [ TABLE_static_ports <static-if-name> ] [ TABLE_v2_ports <v2-if-name> [ <uptime> ] [ <expires> ] [
<gq-missed> ] ] [ TABLE_star_g_ports <star-g-if-name> [ <uptime> ] [ <expires> ] ] [ <g-vpc> ] [ <rsf> ] [
<js> ] [ TABLE_source <source> [ <srsf> ] [ <s-mfdm> ] [ <src-static> ] [ <src-dynamic> ] [
TABLE_src_static_ports <src-static-if-name> ] [ TABLE_src_dynamic [ <oifs> ] <dyn-if-name> [ <src-uptime>
] [ <src-expires> ] ] [ <s-vpc> ] ] ] [ <snoop-enabled> ] [ <omf-enabled> ] [ <group-count> ] [ <s-g-count>
] [ <total_star_g_count> ] [ <total_sg_count> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	(Optional) IGMP Snooping OTV information
remote	(Optional) IGMP Snooping remote information
groups	Display snooping information for group address
summary	(Optional) Display snooping group summary
<i>group</i>	(Optional) Multicast IP address of single group to display
<i>source</i>	(Optional) Source IP address
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information for the group
__readonly__	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>rports</i>	(Optional)
<i>rtrPortFlag</i>	(Optional)

<i>snoop-enabled</i>	(Optional)
<i>omf-enabled</i>	(Optional)
<i>group-count</i>	(Optional)
<i>s-g-count</i>	(Optional)
<i>total_star_g_count</i>	(Optional)
<i>total_sg_count</i>	(Optional)
TABLE_port	(Optional)
<i>if-name</i>	(Optional)
TABLE_rtrports	(Optional)
<i>rport-if-name</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_group	(Optional)
<i>addr</i>	(Optional)
<i>ver</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>rsf</i>	(Optional)
<i>js</i>	(Optional)
<i>g-mfdm</i>	(Optional)
<i>old-host</i>	(Optional)
<i>g-vpc</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
TABLE_static_ports	(Optional)
<i>static-if-name</i>	(Optional)
TABLE_v2_ports	(Optional)
<i>v2-if-name</i>	(Optional)
<i>uptime</i>	(Optional)

<i>expires</i>	(Optional)
<i>gq-missed</i>	(Optional)
TABLE_star_g_ports	(Optional)
<i>star-g-if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>srsf</i>	(Optional)
<i>s-mfdm</i>	(Optional)
<i>s-vpc</i>	(Optional)
<i>src-static</i>	(Optional)
<i>src-dynamic</i>	(Optional)
TABLE_src_static_ports	(Optional)
<i>src-static-if-name</i>	(Optional)
TABLE_src_dynamic	(Optional)
<i>oifs</i>	(Optional)
<i>dyn-if-name</i>	(Optional)
<i>src-uptime</i>	(Optional)
<i>src-expires</i>	(Optional)

**Command Mode**

- /exec



## show ip igmp snooping lookup-mode

```
show ip igmp snooping lookup-mode [ vlan <vlan> | bridge-domain <bidid> ] [ __readonly__ [ <configured> ] [ <operational> ] [ TABLE_vlan [ <vlan-id> ] [ <lookup> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
lookup-mode	IGMP Snooping lkup mode information
vlan	(Optional) Display VLAN information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
<i>bidid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>configured</i>	(Optional)
<i>operational</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>lookup</i>	(Optional)

### Command Mode

- /exec

# show ip igmp snooping mac-oif

```
show ip igmp snooping mac-oif [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ <totaloif> ] ] [ TABLE_vlan [ <vlan-id> ] [ <count> ] [ TABLE_mac [ <mac-addr> ] [ TABLE_oif [ <oifs> ] ] ] ] ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mac-oif	IGMP Snooping static mac oif information
vlan	(Optional) Display VLAN information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) static mac oif detail, M2RIB oif info
<i>__readonly__</i>	(Optional)
<i>totaloif</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>count</i>	(Optional)
TABLE_mac	(Optional)
<i>mac-addr</i>	(Optional)
TABLE_oif	(Optional)
<i>oifs</i>	(Optional)

## Command Mode

- /exec

## show ip igmp snooping mrouter

```
show ip igmp snooping mrouter [ otv ] [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__
TABLE_vlan <vlan-id> TABLE_intf <if-name> <static> <dynamic> <vpc> <fabricpath-core-port>
<co-learned> <user-configured> <learnt-by-peer> <uptime> <expires> <internal> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mrouter	Display multicast routers detected
otv	(Optional) IGMP Snooping OTV information
vlan	(Optional) Display VLAN multicast router information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD multicast router information
<i>bdid</i>	(Optional) Specify BD
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
<i>internal</i>	(Optional)
<i>vpc</i>	(Optional)
<i>fabricpath-core-port</i>	(Optional)
<i>co-learned</i>	(Optional)

<i>user-configured</i>	(Optional)
<i>learnt-by-peer</i>	(Optional)

**Command Mode**

- /exec

# show ip igmp snooping pw vlan brief

show ip igmp snooping pw vlan brief [ \_\_readonly\_\_ <vlan-id> ]

## Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
pw	IGMP Snooping PW information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	(Optional)
<i>vlan-id</i>	(Optional)

## Command Mode

- /exec

## show ip igmp snooping querier

```
show ip igmp snooping querier [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ TABLE_vlan
<vlan-id> <qa> <qv> [ <expires> ] <qiod> <qname> <int> [ <last_member_query_count> ] [
<config_last_member_query_count> ] [ <snooping_version> ] [ <config_qv> ] [ <robust> ] [ <config_robust>
] [ <startup_query_count> ] [ <config_startup_query_count> ] [ <startup_query_interval> ] [
<config_startup_query_interval> ] [ <mbr_query_interval> ] [ <config_mbr_query_interval> ] [
<snooping_query_intvl> ] [ <config_snooping_query_intvl> ] [ <gquery_response_time> ] [
<config_gquery_response_time> ] [ <querier_timeout> ] [ <querier_timeout_flag> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
querier	Display snooping querier information
vlan	(Optional) Display VLAN IGMP snooping querier information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping querier information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>qa</i>	(Optional)
<i>expires</i>	(Optional)
<i>qv</i>	(Optional)
<i>qiod</i>	(Optional)
<i>qname</i>	(Optional)
<i>int</i>	(Optional)
<i>last_member_query_count</i>	(Optional)
<i>config_last_member_query_count</i>	(Optional)
<i>snooping_version</i>	(Optional)

<i>config_qv</i>	(Optional)
<i>robust</i>	(Optional)
<i>config_robust</i>	(Optional)
<i>startup_query_count</i>	(Optional)
<i>config_startup_query_count</i>	(Optional)
<i>startup_query_interval</i>	(Optional)
<i>config_startup_query_interval</i>	(Optional)
<i>mbr_query_interval</i>	(Optional)
<i>config_mbr_query_interval</i>	(Optional)
<i>snooping_query_intvl</i>	(Optional)
<i>config_snooping_query_intvl</i>	(Optional)
<i>gquery_response_time</i>	(Optional)
<i>config_gquery_response_time</i>	(Optional)
<i>querier_timeout</i>	(Optional)
<i>querier_timeout_flag</i>	(Optional)

### Command Mode

- /exec

## show ip igmp snooping report statistics

```
show ip igmp snooping { report-policy | access-group } statistics [ vlan <vlan> ] [ __readonly__ [
TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
report-policy	IGMP Report Policy
access-group	IGMP access-group
statistics	Policy statistics
vlan	(Optional) Display VLAN IGMP snooping policy statistics information
<i>vlan</i>	(Optional) Specify VLAN
__readonly__	(Optional)
TABLE_vlanid	(Optional)
<i>vlan-id</i>	(Optional)
<i>rpm-type</i>	(Optional)
<i>policy-name</i>	(Optional)

### Command Mode

- /exec



# show ip igmp snooping statistics

```
show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bidid> ] [ __readonly__ [ <pr> ] [
<inv_pkt> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrdloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [
<vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfsf> ] [ <vpccfsrs> ] [ <vpccfsrr> ] [ <vpccfsrf> ] [ <vpccfsrfp> ]
] [ <vpccfsurls> ] [ <vpccfsurlr> ] [ <vpccfsurlf> ] [ <vpccfsrls> ] [ <vpccfsrlr> ] [ <vpccfsrlf> ] [ <inv_iod> ]
] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmps> ] [ <mfdgcmps> ] [ <bufsnt> ] [ <bufackr> ] [
<vpemismatch> ] [ { TABLE_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v3rr> ] [ <v1qr> ]
] [ <v2qr> ] [ <v3qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v3gs> ] [
<vmr> ] [ <upr> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <mps> ] [ <mpr> ] [ <mpe> ]
] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <repflooded> ] [ <repfwded> ] } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
statistics	Display packet/error counter statistics
global	(Optional) Display global statistics
vlan	(Optional) Display VLAN statistics
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD statistics
<i>bidid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>pr</i>	(Optional)
<i>inv_pkt</i>	(Optional)
<i>pnv</i>	(Optional)
<i>loopbkpkt</i>	(Optional)
<i>mrdloopbk</i>	(Optional)
<i>pf</i>	(Optional)
<i>vpcdrqs</i>	(Optional)
<i>vpcdrqr</i>	(Optional)
<i>vpcdrqf</i>	(Optional)

<i>vpcdrus</i>	(Optional)
<i>vpcdrur</i>	(Optional)
<i>vpcdruf</i>	(Optional)
<i>vpccfssf</i>	(Optional)
<i>vpccfsrs</i>	(Optional)
<i>vpccfsrr</i>	(Optional)
<i>vpccfsrf</i>	(Optional)
<i>vpccfsrfp</i>	(Optional)
<i>vpccfsurls</i>	(Optional)
<i>vpccfsurlr</i>	(Optional)
<i>vpccfsurlf</i>	(Optional)
<i>vpccfsrsls</i>	(Optional)
<i>vpccfsrlr</i>	(Optional)
<i>vpccfsrlf</i>	(Optional)
<i>inv_iod</i>	(Optional)
<i>stptcnr</i>	(Optional)
<i>imapif</i>	(Optional)
<i>mfreqr</i>	(Optional)
<i>mfcmps</i>	(Optional)
<i>mfdgcmps</i>	(Optional)
<i>bufsnt</i>	(Optional)
<i>bufackr</i>	(Optional)
<i>vpcmismatch</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>ut</i>	(Optional)
<i>vpr</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2rr</i>	(Optional)

<i>v3rr</i>	(Optional)
<i>v1qr</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>phr</i>	(Optional)
<i>irr</i>	(Optional)
<i>iqr</i>	(Optional)
<i>v1rs</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v3gs</i>	(Optional)
<i>vmr</i>	(Optional)
<i>upr</i>	(Optional)
<i>qo</i>	(Optional)
<i>v2ro</i>	(Optional)
<i>v2lo</i>	(Optional)
<i>v3ro</i>	(Optional)
<i>vpsr</i>	(Optional)
<i>str</i>	(Optional)
<i>cps</i>	(Optional)
<i>cpr</i>	(Optional)
<i>cpe</i>	(Optional)
<i>mps</i>	(Optional)
<i>mpr</i>	(Optional)
<i>mpe</i>	(Optional)
<i>repflooded</i>	(Optional)
<i>repfwded</i>	(Optional)

**Command Mode**

**show ip igmp snooping statistics**

- /exec

# show ip igmp vrf all

```
show ip igmp vrf all [ __readonly__ { TABLE_vrfname <vrf-name> <vrf-id> <instance> <work-in-txlist> }
{ TABLE_vrfid <vrf-name-i> <vrf-id-i> <instance-i> <work-in-txlist-i> } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
vrf	Display per-VRF information
all	Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrfname	(Optional)
<i>vrf-name</i>	(Optional)
<i>vrf-id</i>	(Optional)
<i>instance</i>	(Optional)
<i>work-in-txlist</i>	(Optional)
TABLE_vrfid	(Optional)
<i>vrf-name-i</i>	(Optional)
<i>vrf-id-i</i>	(Optional)
<i>instance-i</i>	(Optional)
<i>work-in-txlist-i</i>	(Optional)

## Command Mode

- /exec

## show ip interface

```
show ip interface { { { brief [ include-secondary ] } | [ <interface> ] | [ <ip-addr> ] } [ operational ] [ vaddr ]
[ vrf { <vrf-name> | <vrf-known-name> | all } } [ __readonly__ [ TABLE_intf [ <vrf-name-out> ] [
<intf-name> ] [ <proto-state> ] [ <link-state> ] [ <admin-state> ] [ <iod> ] [ <first_unnum_iod> ] [
TABLE_unnuminf<unnum-child-inf> ] [ <prefix> ] [ <subnet> ] [ <masklen> ] [ TABLE_secondary_address
<prefix1> <subnet1> <masklen1> ] [ <num-addr> ] [ <vaddr-client> ] [ <vaddr-prefix> ] [ <vaddr-subnet>
] [ <vaddr-masklen> ] [ <num-vaddr> ] [ <unnum-intf> ] [ <ip-disabled> ] [ <bcast-addr> ] [ <maddr> ] + [
<num-maddr> ] [ <mtu> ] [ <pref> ] [ <tag> ] [ <proxy-arp> ] [ <lcl-proxy-arp> ] [ <mrouting> ] [
<icmp-redirect> ] [ <dir-bcast> ] [ <ip-forwarding> ] [ <ip-unreach> ] [ <port-unreach> ] [ <urpf-mode> ] [
<ip-ls-type> ] [ <urpf-acl> ] [ <pbr-in> ] [ <pbr-out> ] [ <acl-in> ] [ <acl-out> ] [ <stats-last-reset> ] [
<upkt-sent> ] [ <upkt-recv> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-sent> ] [
<ubyte-recv> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-sent> ] [ <mpkt-recv> ] [
<mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-sent> ] [ <mbyte-recv> ] [ <mbyte-fwd> ] [
<mbyte-orig> ] [ <mbyte-consumed> ] [ <bpkt-sent> ] [ <bpkt-recv> ] [ <bpkt-fwd> ] [ <bpkt-orig> ] [
<bpkt-consumed> ] [ <bbyte-sent> ] [ <bbyte-recv> ] [ <bbyte-fwd> ] [ <bbyte-orig> ] [ <bbyte-consumed>
] [ <lpkt-sent> ] [ <lpkt-recv> ] [ <lpkt-fwd> ] [ <lpkt-orig> ] [ <lpkt-consumed> ] [ <lbyte-sent> ] [
<lbyte-recv> ] [ <lbyte-fwd> ] [ <lbyte-orig> ] [ <lbyte-consumed> ] [ <wccp-outbound> ] [ <wccp-inbound>
] [ <wccp-exclude> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
interface	Display IP related interface information
brief	Display summary of IP interface status and configuration
include-secondary	(Optional) Display summary of all IP addresses
operational	(Optional) Display only interfaces that are administratively enabled
<i>interface</i>	(Optional) Interface name to display
<i>ip-addr</i>	(Optional) Display interface for local IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
vaddr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>first_unnum_iod</i>	(Optional)
<i>prefix</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>subnet</i>	(Optional)
<i>masklen</i>	(Optional)
TABLE_unnuminf	(Optional)
<i>unnum-child-inf</i>	(Optional)
TABLE_secondary_address	(Optional)
<i>prefix1</i>	(Optional)
<i>subnet1</i>	(Optional)
<i>masklen1</i>	(Optional)
<i>num-addr</i>	(Optional)
<i>vaddr-client</i>	(Optional)
<i>vaddr-prefix</i>	(Optional)
<i>vaddr-subnet</i>	(Optional)
<i>vaddr-masklen</i>	(Optional)
<i>num-vaddr</i>	(Optional)
<i>unnum-intf</i>	(Optional)
<i>ip-disabled</i>	(Optional)
<i>bcast-addr</i>	(Optional)
<i>maddr</i>	(Optional)
<i>num-maddr</i>	(Optional)
<i>mtu</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)

<i>proxy-arp</i>	(Optional)
<i>lcl-proxy-arp</i>	(Optional)
<i>mrouting</i>	(Optional)
<i>icmp-redirect</i>	(Optional)
<i>dir-bcast</i>	(Optional)
<i>ip-forwarding</i>	(Optional)
<i>ip-unreach</i>	(Optional)
<i>port-unreach</i>	(Optional)
<i>urpf-mode</i>	(Optional)
<i>ip-ls-type</i>	(Optional)
<i>urpf-acl</i>	(Optional)
<i>pbr-in</i>	(Optional)
<i>pbr-out</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>upkt-sent</i>	(Optional)
<i>upkt-recv</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-sent</i>	(Optional)
<i>ubyte-recv</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-sent</i>	(Optional)
<i>mpkt-recv</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)



<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-sent</i>	(Optional)
<i>mbyte-recv</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>bpkt-sent</i>	(Optional)
<i>bpkt-recv</i>	(Optional)
<i>bpkt-fwd</i>	(Optional)
<i>bpkt-orig</i>	(Optional)
<i>bpkt-consumed</i>	(Optional)
<i>bbyte-sent</i>	(Optional)
<i>bbyte-recv</i>	(Optional)
<i>bbyte-fwd</i>	(Optional)
<i>bbyte-orig</i>	(Optional)
<i>bbyte-consumed</i>	(Optional)
<i>lpkt-sent</i>	(Optional)
<i>lpkt-recv</i>	(Optional)
<i>lpkt-fwd</i>	(Optional)
<i>lpkt-orig</i>	(Optional)
<i>lpkt-consumed</i>	(Optional)
<i>lbyte-sent</i>	(Optional)
<i>lbyte-recv</i>	(Optional)
<i>lbyte-fwd</i>	(Optional)
<i>lbyte-orig</i>	(Optional)
<i>lbyte-consumed</i>	(Optional)
<i>wccp-outbound</i>	(Optional)
<i>wccp-inbound</i>	(Optional)

<i>wccp-exclude</i>	(Optional)
---------------------	------------

**Command Mode**

- /exec

# show ip lisp

```
show { ip | ipv6 } lisp [ database ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
database	(Optional) Show EID-prefixes configured for site
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show ip lisp data-cache

show ip lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]

## Syntax Description

show	Show running system information
ip	Display IP information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IP destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

## show ip lisp locator-hash

```
{ { show ip lisp locator-hash { <eid-prefix> | { <source-eid> <dest-eid> } } [ vrf { <vrf-name> | <vrf-known-name> } ] } | { show ipv6 lisp locator-hash { <eid-prefix6> | { <source-eid6> <dest-eid6> } } [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
locator-hash	Display source and dest locators for EID pair
<i>source-eid</i>	Source IPv4 endpoint identifier (EID)
<i>dest-eid</i>	Destination IPv4 endpoint identifier (EID)
<i>eid-prefix</i>	Display exact match for IP EID-prefix entry
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

## show ip lisp map-cache

```
{ { show ip lisp map-cache [ <eid> | <eid-prefix> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } } | {
show ipv6 lisp map-cache [ <eid6> | <eid-prefix6> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
map-cache	Display EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid</i>	(Optional) Display mapping for IP destination EID
<i>eid-prefix</i>	(Optional) Display exact match for IP EID-prefix entry
detail	(Optional) Display entire map-cache in long format

### Command Mode

- /exec

# show ip lisp statistics

```
show { ip | ipv6 } lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
statistics	Display global LISP statistics
vrf	(Optional) Display statistics information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show ip lisp translate-cache

```
{ show ip lisp translate-cache [ <nrEID> ] } | { show ipv6 lisp translate-cache [ <nrEID6> ] }
```

## Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
translate-cache	Display configured translation cache
<i>nrEID</i>	(Optional) IPv4 address of inside non-routable EID
<i>nrEID6</i>	(Optional) IPv6 address of inside non-routable EID

## Command Mode

- /exec



## show ip load-sharing

```
show ip load-sharing [ __readonly__ { <univer-id-ran-seed> [ <l3-msg-load> ] [ <l34-msg-load> ] [
<dest-addr-load> ] [ <src-dst-ip-gre> ] [ <bad-load> ] [ <gre-outer-hash> ] [ <concatenation> ] [ <rotate> ] [
<src-dst-ip-gtpu> ] } ]
```

### Syntax Description

show	Show running system information
ip	Configure IP features
load-sharing	Display global loadbalance info
<i>__readonly__</i>	(Optional)
<i>univer-id-ran-seed</i>	(Optional)
<i>l3-msg-load</i>	(Optional)
<i>l34-msg-load</i>	(Optional)
<i>dest-addr-load</i>	(Optional)
<i>src-dst-ip-gre</i>	(Optional)
<i>bad-load</i>	(Optional)
<i>gre-outer-hash</i>	(Optional)
<i>concatenation</i>	(Optional)
<i>rotate</i>	(Optional)
<i>src-dst-ip-gtpu</i>	(Optional)

### Command Mode

- /exec

# show ip local policy

```
show ip local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
local	IP local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

## Command Mode

- /exec

# show ip logging

show ip logging [ hash ] [ \_\_readonly\_\_ ]

## Syntax Description

show	Show running system information
ip	Display IP information
logging	Display IP policy logging table
hash	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)

## Command Mode

- /exec

# show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast | mdt } |
all } ] } } [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] | <ip-prefix> [ longer-prefixes ] ] [ 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
<i>ip-addr</i>	(Optional) Display one particular network from the BRIB in detail
<i>ip-mask</i>	(Optional) Mask for one particular prefix in the BRIB
<i>ip-prefix</i>	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
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
mdt	(Optional) Display BGP information for multicast distribution tree
all	(Optional) Display BGP information for all address families

## Command Mode

- /exec

# show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommmlist-name> |
<test_pol_name> } } [ exact-match ] } [ 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
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>commlist-name</i>	Name of community-list
<i>extcommmlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
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	(Optional) Display BGP information for all address families
exact-match	(Optional) Exact match of the communities

**Command Mode**

- /exec

## show ip mbgp community

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ 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
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
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
community	Display routes matching the BGP communities
<i>regexp-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

### Command Mode

- /exec

# show ip mbgp dampening

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } dampening { dampened-paths [ regexp <regexp-str> ] | flap-statistics | parameters | history-paths [ regexp
<regexp-str> ] } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
dampened-paths	Display all dampened paths
flap-statistics	Display flap statistics for routes
parameters	Display dampening parameters
history-paths	Display all history paths
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	(Optional) Display BGP information for all address families
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

## Command Mode

- /exec



## show ip mbgp extcommunity

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } extcommunity { <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ 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
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
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regex-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

### Command Mode

- /exec

## show ip mbgp flap-statistics

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] [ 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
flap-statistics	Display route flap statistics
<i>ip-prefix</i>	(Optional) Display flap statistics for one prefix
<i>ip-addr</i>	(Optional) Display flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
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	(Optional) Display BGP information for all address families

### Command Mode

- /exec

# show ip mbgp neighbors

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | received-routes | paths | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ 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
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
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	(Optional) Display BGP information for all address families
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

## Command Mode

- /exec

## show ip mbgp nexthop-database

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } nexthop-database [ 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
nexthop-database	Display nexthop database
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	(Optional) Display BGP information for all address families

### Command Mode

- /exec

## show ip mbgp nexthop

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } nexthop
<ipnexthop> [ 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
nexthop	Display routes matching the nexthop
<i>ipnexthop</i>	Nexthop address
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

### Command Mode

- /exec

## show ip mbgp prefix-list

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } }
prefix-list { <prfxlist-name> | <test_pol_name> } [ 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
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
<i>test_pol_name</i>	An existing test-list policy
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

### Command Mode

- /exec

## show ip mbgp received-paths

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } received-paths [ private ] [ 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
received-paths	Display paths stored for soft-reconfig
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	(Optional) Display BGP information for all address families
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### Command Mode

- /exec



# show ip mroute

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

## Syntax Description

show	Show running system information
ip	Display IP information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IP multicast routing table
summary	(Optional) Display route counts and packet rates
shared-tree	(Optional) Display route for *,G entries
source-tree	(Optional) Display route for S,G entries
software-forwarded	(Optional) Display software switched route counts only
rpf-failed	(Optional) Display RPF failure statistics
rp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
sr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
mofrr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>group</i>	(Optional) Display multicast group/source address for route
<i>source</i>	(Optional) Display multicast group/source address for route

count	(Optional) Display route counts only
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail	(Optional) Display detailed route attributes
flags	(Optional) Display detailed route attributes
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
expiry_timer	(Optional)
route_count	(Optional)
star_g_cnt	(Optional)
sg_cnt	(Optional)
star_g_prfx_cnt	(Optional)
TABLE_summary_source	(Optional)
group_addr	(Optional)
group_mask_len	(Optional)
source_count	(Optional)
TABLE_one_sg	(Optional)
source_addr	(Optional)
packets	(Optional)
bytes	(Optional)
aps	(Optional)
pps	(Optional)
rate_buf	(Optional)
oifs	(Optional)
software_fwd	(Optional)
rpf-failed-pkts	(Optional)
rpf-failed-bytes	(Optional)
TABLE_one_route	(Optional)
mcast-addrs	(Optional)

<i>source_addrs</i>	(Optional)
<i>group_addrs</i>	(Optional)
<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>mofrr</i>	(Optional)
<i>uptime</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib-name</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>stale-route</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>stats-rate-buf</i>	(Optional)
<i>lisp-src-rloc</i>	(Optional)
<i>translated-route-src</i>	(Optional)
<i>translated-route-grp</i>	(Optional)
<i>route-iif</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>mofrr-iif</i>	(Optional)
<i>mofrr-nbr</i>	(Optional)
<i>internal</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>fabric-oif</i>	(Optional)
<i>fabric-loser</i>	(Optional)
<i>num-vpc-svi-oifs</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>oif-uptime</i>	(Optional)

TABLE_oif_mpib	(Optional)
<i>oif-mpib-name</i>	(Optional)
<i>stale-oif</i>	(Optional)
<i>omd-vpc-svi</i>	(Optional)
<i>core-interest</i>	(Optional)
<i>fabric-interest</i>	(Optional)
<i>rpf</i>	(Optional)
<i>route-mdt-iod</i>	(Optional)
<i>oif-list-bitfield</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>star-g-route</i>	(Optional)
<i>sg-route</i>	(Optional)
<i>star-g-prfx</i>	(Optional)
<i>group-count</i>	(Optional)
<i>avg</i>	(Optional)
<i>rem</i>	(Optional)
<i>stats-pndg</i>	(Optional)

### Command Mode

- /exec

## show ip msdp count

```
show ip msdp count [ <asn> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf
[ <out-vrf> ] [ <total-cnt> ] [ TABLE_asn [ <out-asn> ] [ <src-cnt> ] [ <grp-cnt> ] ] ] ] ]
```

### Syntax Description

<code>show</code>	Show running system information
<code>ip</code>	Display IP information
<code>msdp</code>	Display MSDP status and configuration
<code>count</code>	Display SA cache counters
<code>asn</code>	(Optional) AS number
<code>vrf</code>	(Optional) Display per-VRF information
<code>vrf-name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(Optional) Known VRF name
<code>all</code>	(Optional) Display information for all VRFs
<code>__readonly__</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>out-vrf</code>	(Optional)
<code>total-cnt</code>	(Optional)
<code>TABLE_asn</code>	(Optional)
<code>out-asn</code>	(Optional)
<code>src-cnt</code>	(Optional)
<code>grp-cnt</code>	(Optional)

### Command Mode

- /exec

# show ip msdp mesh-group

```
show ip msdp mesh-group [ <mesh-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
[ TABLE_vrf [ <out-vrf> ] [ TABLE_meshgroup [ <meshgroup-name> ] [ TABLE_peer [ <peer-ipaddr> ] [
<peer-asn> ] [ <peer-description> ] ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
mesh-group	Display members of mesh-group
<i>mesh-group</i>	(Optional) Display single mesh-group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_meshgroup	(Optional)
<i>meshgroup-name</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-description</i>	(Optional)

## Command Mode

- /exec

## show ip msdp peer

```
show ip msdp peer [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_peer [ <peer-ipaddr> ] [ <out-vrf> ] [ <peer-asn> ] [ <local-ipaddr> ] [ <local-iface> ] [
<fully-configured> ] [ <peer-description> ] [ <connection-status> ] [ <peer-listening> ] [ <state-duration> ]
[ <peer-uptime> ] [ <peer-rr> ] [ <peer-password> ] [ <peer-ki> ] [ <peer-kt> ] [ <peer-ri> ] [ <sa-in-policy>
] [ <sa-out-policy> ] [ <sa-limit> ] [ <mesh-name> ] [ <last-rcvd> ] [ <sa-rcvd> ] [ <sa-sent> ] [ <sa-req-rcvd>
] [ <sa-req-sent> ] [ <sa-resp-rcvd> ] [ <sa-resp-sent> ] [ <in-ctrl-msgs> ] [ <out-ctrl-msgs> ] [ <in-data-msgs>
] [ <out-data-msgs> ] [ <sa-ka-rcvd> ] [ <sa-ka-sent> ] [ <sa-notif-rcvd> ] [ <sa-notif-sent> ] [ <rem-port> ]
[ <local-port> ] [ <rpf-failures> ] [ <cache-lifetime> ] [ <estb-transitions> ] [ <conn-attempts> ] [ <discont-time>
] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
peer	Display MSDP peer information
<i>peer-address</i>	(Optional) IP address of MSDP peer
__readonly__	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>local-ipaddr</i>	(Optional)
<i>local-iface</i>	(Optional)
<i>fully-configured</i>	(Optional)
<i>peer-description</i>	(Optional)
<i>connection-status</i>	(Optional)
<i>state-duration</i>	(Optional)

<i>peer-listening</i>	(Optional)
<i>peer-uptime</i>	(Optional)
<i>peer-password</i>	(Optional)
<i>peer-ki</i>	(Optional)
<i>peer-kt</i>	(Optional)
<i>peer-ri</i>	(Optional)
<i>peer-rr</i>	(Optional)
<i>sa-in-policy</i>	(Optional)
<i>sa-out-policy</i>	(Optional)
<i>sa-limit</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>last-rcvd</i>	(Optional)
<i>sa-rcvd</i>	(Optional)
<i>sa-sent</i>	(Optional)
<i>sa-req-rcvd</i>	(Optional)
<i>sa-req-sent</i>	(Optional)
<i>sa-resp-rcvd</i>	(Optional)
<i>sa-resp-sent</i>	(Optional)
<i>out-ctrl-msgs</i>	(Optional)
<i>in-ctrl-msgs</i>	(Optional)
<i>out-data-msgs</i>	(Optional)
<i>in-data-msgs</i>	(Optional)
<i>sa-ka-rcvd</i>	(Optional)
<i>sa-ka-sent</i>	(Optional)
<i>sa-notif-rcvd</i>	(Optional)
<i>sa-notif-sent</i>	(Optional)
<i>rem-port</i>	(Optional)
<i>local-port</i>	(Optional)
<i>rpf-failures</i>	(Optional)



<i>cache-lifetime</i>	(Optional)
<i>estb-transitions</i>	(Optional)
<i>conn-attempts</i>	(Optional)
<i>discont-time</i>	(Optional)

**Command Mode**

- /exec

## show ip msdp policy statistics sa-policy in

```
show ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ] [ __readonly__ [ TABLE_routemap [ <name> ] [ <action> ] [ <seq_num> ] [ TABLE_cmd [ <command>
] [ <compare_count> ] [ <match_count> ] ] ] [ <total_accept_count> ] [ <total_reject_count> ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
msdp	MSDP global configuration commands
policy	Policy information
statistics	Policy statistics
sa-policy	Configured SA policy for MSDP peer
<i>peer-address</i>	IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

### Command Mode

- /exec

## show ip msdp rpf

```
show ip msdp rpf <rp-address> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_rp
[ <out-rp-address> ] [ <out-vrf> ] [ TABLE_mesh [ <peer-addr> ] [ <mesh-name> ] ] [ <is-peer-cnt-one> ] [
<is-rp-peer> ] [ <is-bgp-alive> ] [ <bgp-peer-addr> ] [ <peer-asn> ] [ <origin-asn> ] [ <is-mbgp> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
rpf	Display RPF-peer for RP address
<i>rp-address</i>	IP address of RP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_rp	(Optional)
<i>out-rp-address</i>	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_mesh	(Optional)
<i>peer-addr</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>is-peer-cnt-one</i>	(Optional)
<i>is-rp-peer</i>	(Optional)
<i>is-bgp-alive</i>	(Optional)
<i>bgp-peer-addr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>origin-asn</i>	(Optional)
<i>is-mbgp</i>	(Optional)

### Command Mode

- /exec

## show ip msdp sa

```
show ip msdp { sa-cache | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <asn> ] [ peer
<peer> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf [ <out-vrf>
] [ <total-sa-count> ] [ TABLE_sa [ <src-addr> ] [ <grp-addr> ] [ <rp-addr> ] [ <out-asn> ] [ <uptime> ] [
<peer-addr> ] [ <expire> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Display MSDP SA route cache
sa-cache	Display MSDP SA route cache
<i>source</i>	(Optional) Display group/source address for SA
<i>group</i>	(Optional) Display group/source address for SA
<i>asn</i>	(Optional) AS number
detail	(Optional) Display detailed information
peer	(Optional) Display MSDP SA received from single peer
<i>peer</i>	(Optional) IP address of peer for SA
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-sa-count</i>	(Optional)
TABLE_sa	(Optional)
<i>src-addr</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)

<i>peer-addr</i>	(Optional)
<i>out-asn</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expire</i>	(Optional)

**Command Mode**

- /exec

## show ip msdp sources

```
show ip msdp sources [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_VRF [
<out-vrf> ] [ TABLE_source [ <source-addr> ] [ <count> ] [ <is-count-ge-limit> ] [ <is-limit-valid> ] [ <limit>
] [ <source-prefix> ] [ <violates> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
sources	Display learned sources with their group counts and limits
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_VRF	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>is-count-ge-limit</i>	(Optional)
<i>count</i>	(Optional)
<i>is-limit-valid</i>	(Optional)
<i>limit</i>	(Optional)
<i>source-prefix</i>	(Optional)
<i>violates</i>	(Optional)

### Command Mode

- /exec



## show ip msdp statistics

```
show ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <out-vrf> ] [ <select-err> ] [ <rcv-sel-err> ] [ TABLE_peer [ <peer-address> ] [ <buffer-full>
] [ <rcv-buf-full> ] [ <fatal-err> ] [ <rcv-fat-err> ] [ <would-block> ] [ <rcv-would-block> ] [ <sock-exp>
] [ <invalid-type> ] [ <invalid-len> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
statistics	Display internal statistics
<i>peer-address</i>	(Optional) IP address of MSDP peer
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
<i>select-err</i>	(Optional)
<i>rcv-sel-err</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>buffer-full</i>	(Optional)
<i>rcv-buf-full</i>	(Optional)
<i>fatal-err</i>	(Optional)
<i>rcv-fat-err</i>	(Optional)
<i>would-block</i>	(Optional)
<i>rcv-would-block</i>	(Optional)
<i>sock-exp</i>	(Optional)

<i>invalid-type</i>	(Optional)
<i>invalid-len</i>	(Optional)

**Command Mode**

- /exec

# show ip msdp summary

```
show ip msdp summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_VRF [
<out-vrf> ] [ <local-asn> ] [ <originator-id> ] [ <config-peer-count> ] [ <estb-peer-count> ] [ <shut-peer-count>
] [ TABLE_peer [ <peer-address> ] [ <peer-asn> ] [ <peer-state> ] [ <peer-uptime> ] [ <peer-last-msg> ] [
<peer-sa-rcvd> ] [ <peer-sa-limit> ] ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary	Display MSDP peer summary
<i>__readonly__</i>	(Optional)
TABLE_VRF	(Optional)
<i>out-vrf</i>	(Optional)
<i>local-asn</i>	(Optional)
<i>originator-id</i>	(Optional)
<i>config-peer-count</i>	(Optional)
<i>estb-peer-count</i>	(Optional)
<i>shut-peer-count</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-state</i>	(Optional)
<i>peer-uptime</i>	(Optional)
<i>peer-last-msg</i>	(Optional)
<i>peer-sa-rcvd</i>	(Optional)

<i>peer-sa-limit</i>	(Optional)
----------------------	------------

**Command Mode**

- /exec

# show ip nat-alias

```
show ip nat-alias [ __readonly__ [ TABLE_nat_alias_vrf [ { <nat-alias-vrf-name> [ TABLE_each_vrf_alias
{ <nat-alias-addr> <nat-alias-intr> } ] } ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
nat-alias	Display aliases registered by NAT module
__readonly__	(Optional)
TABLE_nat_alias_vrf	(Optional)
<i>nat-alias-vrf-name</i>	(Optional)
TABLE_each_vrf_alias	(Optional)
<i>nat-alias-addr</i>	(Optional)
<i>nat-alias-intr</i>	(Optional)

## Command Mode

- /exec

# show ip nat max

```
show ip nat max [ __readonly__ <max_dyn_translations> <max_all_host> <static_translations>
<dynamic_translations> <icmp_translations> ]
```

## Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
max	IP NAT max values
<i>__readonly__</i>	(Optional)
<i>max_dyn_translations</i>	(Optional) Max Dynamic Translations
<i>max_all_host</i>	(Optional) Max All Hosts
<i>static_translations</i>	(Optional) No. Static Translations
<i>dynamic_translations</i>	(Optional) No. Dynamic Translations
<i>icmp_translations</i>	(Optional) No. ICMP Translations

## Command Mode

- /exec

## show ip nat statistics

```
show ip nat statistics [ __readonly__ <last_clear_time> <total_active_translations> <static_translations>
<dynamic_translations> <icmp_translations> <total_exp_translations> <syn_exp_translations>
<finrst_exp_translations> <inactive_exp_translations> <total_hits> <total_misses> <io_hits> <io_misses>
<oi_hits> <oi_misses> <total_sw_translated> <io_sw_translated> <oi_sw_translated> <total_sw_dropped>
<io_sw_dropped> <oi_sw_dropped> <addr_alloc_fail_drop> <port_alloc_fail_drop>
<dyn_trans_maxlimit_drop> <icmp_maxlimit_drop> <allhost_maxlimit_drop> <total_tcp_session_created>
<total_tcp_session_closed> [ <Total_NAT_inside_interfaces> ] [ { TABLE_NAT_inside_interfaces [
<nat_inside_interfaces> ] } ] [ <Total_NAT_outside_interfaces> ] [ { TABLE_NAT_outside_interfaces [
<nat_outside_interfaces> ] } ] [ { TABLE_NAT_inside_source_list [ <nat_in_acl_name> ] [
<nat_in_acl_refcount> ] [ <nat_in_pool_name> ] [ <nat_pool_overload> ] [ <in_pool_total_address> ] [
<in_pool_allocated> ] [ <in_pool_missed> ] [ <interface_name> ] [ <interface_status> ] [ <interface_ip_addr>
] } ] [ { TABLE_NAT_outside_source_list [ <nat_out_acl_name> ] [ <nat_out_acl_refcount> ] [
<nat_out_pool_name> ] [ <out_pool_total_address> ] [ <out_pool_allocated> ] [ <out_pool_missed> ] } ] ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
statistics	Translation statistics
<i>__readonly__</i>	(Optional)
<i>last_clear_time</i>	(Optional) Clearable stats collected from
<i>total_active_translations</i>	(Optional) Total active translations
<i>static_translations</i>	(Optional) No. Static Translations
<i>dynamic_translations</i>	(Optional) No. Dynamic Translations
<i>icmp_translations</i>	(Optional) No. ICMP Translations
<i>total_exp_translations</i>	(Optional) Total expired Translations
<i>syn_exp_translations</i>	(Optional) SYN timer expired Translations
<i>finrst_exp_translations</i>	(Optional) FIN-RST timer expired Translations
<i>inactive_exp_translations</i>	(Optional) Inactive timer expired Translations
<i>total_hits</i>	(Optional) Total Hits
<i>total_misses</i>	(Optional) Total Misses
<i>io_hits</i>	(Optional) In-Out Hits
<i>io_misses</i>	(Optional) In-Out Misses

<i>oi_hits</i>	(Optional) Out-In Hits
<i>oi_misses</i>	(Optional) Out-In Misses
<i>total_sw_translated</i>	(Optional) Total SW Translated Packets
<i>io_sw_translated</i>	(Optional) In-Out SW Translated Packets
<i>oi_sw_translated</i>	(Optional) Out-In SW Translated Packets
<i>total_sw_dropped</i>	(Optional) Total SW Dropped Packets
<i>io_sw_dropped</i>	(Optional) In-Out SW Dropped Packets
<i>oi_sw_dropped</i>	(Optional) Out-In SW Dropped Packets
<i>addr_alloc_fail_drop</i>	(Optional) Address alloc. failure dropped Packets
<i>port_alloc_fail_drop</i>	(Optional) Port alloc. failure dropped Packets
<i>dyn_trans_maxlimit_drop</i>	(Optional) Dyn. Translation max limit dropped Packets
<i>icmp_maxlimit_drop</i>	(Optional) ICMP max limit dropped Packets
<i>allhost_maxlimit_drop</i>	(Optional) Allhost max limit dropped Packets
<i>total_tcp_session_created</i>	(Optional) Total tcp session created
<i>total_tcp_session_closed</i>	(Optional) Total tcp session closed
<i>Total_NAT_inside_interfaces</i>	(Optional) Number of NAT inside interfaces
TABLE_NAT_inside_interfaces	(Optional) NAT inside interfaces
<i>nat_inside_interfaces</i>	(Optional) NAT Inside Interfaces
<i>Total_NAT_outside_interfaces</i>	(Optional) Number of NAT outside interfaces
TABLE_NAT_outside_interfaces	(Optional) NAT outside interfaces
<i>nat_outside_interfaces</i>	(Optional) NAT Outside Interfaces
TABLE_NAT_inside_source_list	(Optional) NAT Inside source list
TABLE_NAT_outside_source_list	(Optional) NAT Outside source list
<i>nat_in_acl_name</i>	(Optional) NAT inside access list name
<i>nat_out_acl_name</i>	(Optional) NAT outside access list name
<i>nat_in_acl_refcount</i>	(Optional) NAT inside access list ref. count
<i>nat_out_acl_refcount</i>	(Optional) NAT outside access list ref. count
<i>nat_in_pool_name</i>	(Optional) NAT inside Pool name
<i>nat_out_pool_name</i>	(Optional) NAT outside Pool name



<i>nat_pool_overload</i>	(Optional) NAT Pool overload
<i>in_pool_total_address</i>	(Optional) Total address in the inside pool
<i>out_pool_total_address</i>	(Optional) Total address in the outside pool
<i>in_pool_allocated</i>	(Optional) Total address allocated in the inside pool
<i>out_pool_allocated</i>	(Optional) Total address allocated in the outside pool
<i>in_pool_missed</i>	(Optional) Total failed address allocation in the inside pool
<i>out_pool_missed</i>	(Optional) Total failed address allocation in the outside pool
<i>interface_name</i>	(Optional) NAT source list interface name
<i>interface_status</i>	(Optional) NAT source list interface status
<i>interface_ip_addr</i>	(Optional) NAT source list interface addr

**Command Mode**

- /exec

## show ip nat timeout

```
show ip nat timeout [ __readonly__ <tcp_timeout> <udp_timeout> [ <icmp_timeout> ] <dynamic_timeout>
[ <sampling_timeout> ] [ <syn_timeout> ] [ <finrst_timeout> ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
timeout	IP NAT timeout values
<i>__readonly__</i>	(Optional)
<i>tcp_timeout</i>	(Optional) TCP Timeout
<i>udp_timeout</i>	(Optional) UDP Timeout
<i>icmp_timeout</i>	(Optional) ICMP Timeout
<i>dynamic_timeout</i>	(Optional) Dynamic Timeout
<i>sampling_timeout</i>	(Optional) Sampling Timeout
<i>syn_timeout</i>	(Optional) SYN Timeout
<i>finrst_timeout</i>	(Optional) FINRST Timeout

### Command Mode

- /exec

# show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ verbose ] [ internal-detail ] [
__readonly__ { TABLE_nat_translation [ <Protocol> ] [ <Inside_global_IP_V4_Address> ] [
<Inside_global_port> ] [ <Inside_local_IP_V4_Address> ] [ <Inside_local_port> ] [
<Outside_local_IP_V4_Address> ] [ <Outside_local_port> ] [ <Outside_global_IP_V4_Address> ] [
<Outside_global_port> ] [ <VRF> ] [ <In_stats_count> ] [ <Out_stats_count> ] [ <Group_id> ] [ <Time_left>
] [ <Syn> ] [ <Fin_rst> ] [ <Flags> ] [ <Entry_id> ] [ <State> ] } ]
```

## Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
translations	Translation entries
verbose	(Optional) Show extra information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all vrfs
internal-detail	(Optional) Display internal debugs
<i>__readonly__</i>	(Optional) Readonly
TABLE_nat_translation	(Optional) NAT Translation Table
<i>Protocol</i>	(Optional) Protocol
<i>Inside_global_IP_V4_Address</i>	(Optional) Inside global address
<i>Inside_global_port</i>	(Optional) Inside global port
<i>Inside_local_IP_V4_Address</i>	(Optional) Inside local address
<i>Inside_local_port</i>	(Optional) Inside local port
<i>Outside_local_IP_V4_Address</i>	(Optional) Outside local address
<i>Outside_local_port</i>	(Optional) Outside local port
<i>Outside_global_IP_V4_Address</i>	(Optional) Outside global address
<i>Outside_global_port</i>	(Optional) Outside global port
<i>Flags</i>	(Optional) Flags

<i>In_stats_count</i>	(Optional) In stats count
<i>Out_stats_count</i>	(Optional) Out stats count
<i>Entry_id</i>	(Optional) Entry ID
<i>State</i>	(Optional) State
<i>Group_id</i>	(Optional) Group ID
<i>VRF</i>	(Optional) VRF
<i>Time_left</i>	(Optional) Time Left (HH:MM:SS)
<i>Syn</i>	(Optional) Syn
<i>Fin_rst</i>	(Optional) FIN RESET

**Command Mode**

- /exec

# show ip ospf

```
show ip ospf [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<instance_number> <cname> <rid> [ <domain_id_type> ] [ <domain_id_value> ] [ <domain_tag> ] [
<dn_bit_ignore> ] <stateful_ha> <gr_ha> [ <gr_planned_only> ] [ <gr_grace_period> ] [ <gr_state> ] [
<gr_last_status> ] [ <gr_helper_mode> ] <support_tos0_only> <support_opaque_lsa> [ <low_mem_cond>
] <is_abr> <is_asbr> [ <max_lsa_non_self_number> ] [ <max_lsa_state> ] [ <max_lsa_warning_only> ] [
<max_lsa_current_non_self_lsa_number> ] [ <max_lsa_threshold_pct> ] [ <max_lsa_ignore_time> ] [
<max_lsa_reset_time> ] [ <max_lsa_ignore_count> ] [ <max_lsa_current_ignore_count> ] [
<max_lsa_ignore_time_left> ] [ <max_lsa_reset_time_left> ] [ <max_lsa_permanent_ignore> ] [ {
TABLE_redist <proto> [ <max_lsas> ] [ <warning> ] [ <threshold> ] [ <current_count> ] } ] <admin_dist>
<ref_bw> <spf_start_time> <spf_hold_time> <spf_max_time> <lsa_start_time> <lsa_hold_time>
<lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace> <spf_max_paths> <max_metric_adver> [ [
<max_metric_time_left> ] [ <max_metric_wait_bgp> ] [ <max_metric_timeout> ] [ <max_metric_always>
] [ <max_metric_sum_lsa> ] [ <max_metric_ext_lsa> ] ] <asext_lsa_cnt> <asext_lsa_crc> <asopaque_lsa_cnt>
<asopaque_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total> <act_area_normal>
<act_area_stub> <act_area_nssa> [ <name_lookup> ] <no_discard_rt_ext> <no_discard_rt_int> [ <passive_dflt>
] [ <bfd_enabled> ] [ <segrt_configured> ] [ <segrt_enabled> ] [ { <srgb_min_label> <srgb_max_label> } ]
[ { TABLE_area <aname> [ <backbone_active> ] [ <active> ] <age> <total_intf> <act_intf> <passive_intf>
<loopback_intf> [ <gr_nbr_cnt> ] <stub> [ <stub_def_cost> ] <nssa> [ <no_redist> ] [ <nssa_trans> ]
<no_summary> <auth_type> [ { <area_segrt_configured> | <area_segrt_disabled_by_config> } ] [
<area_segrt_enabled> ] <spf_runs> <last_spf_run_time> [ TABLE_range <addr> <masklen> <state> <nets>
<advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ] <lsa_cnt> <lsa_crc> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>instance_number</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)

<i>domain_id_type</i>	(Optional)
<i>domain_id_value</i>	(Optional)
<i>domain_tag</i>	(Optional)
<i>dn_bit_ignore</i>	(Optional)
<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)
TABLE_redist	(Optional)

<i>proto</i>	(Optional)
<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>asopaque_lsa_cnt</i>	(Optional)
<i>asopaque_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)
<i>area_normal</i>	(Optional)

<i>area_stub</i>	(Optional)
<i>area_nssa</i>	(Optional)
<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>segrt_configured</i>	(Optional)
<i>segrt_enabled</i>	(Optional)
<i>srgb_min_label</i>	(Optional)
<i>srgb_max_label</i>	(Optional)
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)
<i>no_redist</i>	(Optional)



<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>area_segrt_configured</i>	(Optional)
<i>area_segrt_disabled_by_config</i>	(Optional)
<i>area_segrt_enabled</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)
TABLE_range	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf border-routers

```
show ip ospf [ <tag> ] border-routers [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> [ TABLE_br <type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [
<vlink_unresolved> ] [ TABLE_br_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh
[ <mbest_nh_addr> ] [ <mbest_nh_intf> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
border-routers	Border routers
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_br	(Optional)
<i>type</i>	(Optional)
<i>addr</i>	(Optional)
<i>cost</i>	(Optional)
<i>asbr</i>	(Optional)
<i>abr</i>	(Optional)
<i>area</i>	(Optional)
<i>spf_inst</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_br_ubest_nh	(Optional)

<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
TABLE_br_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf database

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | adv-router-name <adv-name> ] ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ _readonly_ TABLE_ctx <rid> <ptag> <cname> [
TABLE_db2_lsa <name> [ <area> ] <id> <advrtr> <age> <seqno> <cksum> [ <opaque_id> ] [ <prefix> ] [
<prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ] [ <corrupt> ] [ <rtr_num_links> ] [ <tag> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs
opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID

<i>adv-router-name</i>	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
<i>area</i>	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
<i>ext_tag</i>	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
<i>type</i>	(Optional) Opaque type
<i>router-information</i>	(Optional) Router Information (RI) Opaque LSA
<i>ext-prefix</i>	(Optional) Extended Prefix Opaque LSA
<i>ext-link</i>	(Optional) Extended Link Opaque LSA
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_db2_lsa</i>	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>age</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>srgb_base</i>	(Optional)
<i>srgb_range</i>	(Optional)

<i>corrupt</i>	(Optional)
<i>rtr_num_links</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf database database-summary

```
show ip ospf [ <tag> ] database database-summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_dbsum [ TABLE_dbsum_area <area> [
TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count> ] <area_lsa_total> ] [ TABLE_dbsum_all [
TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ] <non_self_lsa_total> <lsa_total> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
<i>area</i>	(Optional)
TABLE_dbsum_area_lsa	(Optional)
<i>area_lsa_name</i>	(Optional)
<i>area_lsa_count</i>	(Optional)
<i>area_lsa_total</i>	(Optional)
TABLE_dbsum_all	(Optional)

TABLE_dbsum_lsa_all	(Optional)
<i>lsa_name</i>	(Optional)
<i>lsa_count</i>	(Optional)
<i>non_self_lsa_total</i>	(Optional)
<i>lsa_total</i>	(Optional)

**Command Mode**

- /exec



## show ip ospf database detail

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | adv-router-name <adv-name> ]
detail [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag>
<cname> [ TABLE_db2_lsa <name> [ <area> ] [ <rtr_max_metric> ] [ TABLE_lsdb <age> <maxage>
<options> <options_str> <wrapping> <dummy> <flush_pending> <type> <id> <id_str> [ <opaque_type> ]
[ <opaque_type_str> ] [ <opaque_id> ] [ <prefix> ] [ <prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ]
<advtr> <seqno> <cksum> <len> [ <corrupt> ] [ <rtr_abr> ] [ <rtr_asbr> ] [ <rtr_translate> ] [ <rtr_vlink_end>
] [ <rtr_num_links> ] [ <rtr_links_mismatch> ] [ TABLE_rlsa [ <rtr_link_type> ] [ <rtr_link_id_str> ] [
<rtr_link_id> ] [ <rtr_link_data_str> ] [ <rtr_link_data> ] [ <rtr_link_num_tos> ] [ <rtr_link_metric> ] [
TABLE_rlinktos [ <rtr_link_tos_id> ] [ <rtr_link_tos_metric> ] ] [ <net_mask> ] [ TABLE_netlsa [ <net_rtr>
] ] [ <sum_mask> ] [ <sum_metric> ] [ TABLE_sumlsa [ <sum_tos_id> ] [ <sum_tos_metric> ] ] [ <nssa_mask>
] [ <nssa_metric_type2> ] [ <nssa_metric> ] [ <nssa_fwd_addr> ] [ <nssa_tag> ] [ TABLE_nssa [
<nssa_tos_metric_type2> ] [ <nssa_tos_id> ] [ <nssa_tos_metric> ] [ <nssa_tos_fwd_addr> ] [ <nssa_tos_tag>
] ] [ <asext_mask> ] [ <asext_metric_type2> ] [ <asext_metric> ] [ <asext_fwd_addr> ] [ <asext_tag> ] [
TABLE_asext [ <asext_tos_metric_type2> ] [ <asext_tos_id> <asext_tos_metric> ] [ <asext_tos_fwd_addr>
] [ <asext_tos_tag> ] ] [ <opaque_link_intf> ] [ <opaque_unknown> ] [ <opaque_data_len> ] [ <opaque_data>
] [ <opaque_corrupt> ] [ <tlv_type> ] [ <tlv_len> ] [ <tlv_data> ] [ <tlv_unknown> ] [ <gr_interval> ] [
<gr_reason> ] [ <gr_addr> ] [ <te_frag_id> ] [ <te_rtr_id> ] [ <te_link_type> ] [ <te_link_id> ] [
<te_link_metric> ] [ <te_link_max_bw> ] [ <te_link_rsv_bw> ] [ <te_link_unrsv_bw> ] [ <te_link_admin>
] [ <te_num_links> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs

opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
type	(Optional) Opaque type
router-information	(Optional) Router Information (RI) Opaque LSA
ext-prefix	(Optional) Extended Prefix Opaque LSA
ext-link	(Optional) Extended Link Opaque LSA
detail	Display LSA in detail
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_db2_lsa	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>rtr_max_metric</i>	(Optional)

TABLE_lsdb	(Optional)
<i>age</i>	(Optional)
<i>maxage</i>	(Optional)
<i>options</i>	(Optional)
<i>options_str</i>	(Optional)
<i>wrapping</i>	(Optional)
<i>dummy</i>	(Optional)
<i>flush_pending</i>	(Optional)
<i>type</i>	(Optional)
<i>id</i>	(Optional)
<i>id_str</i>	(Optional)
<i>opaque_type</i>	(Optional)
<i>opaque_type_str</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>srgb_base</i>	(Optional)
<i>srgb_range</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>len</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_abr</i>	(Optional)
<i>rtr_asbr</i>	(Optional)
<i>rtr_translate</i>	(Optional)
<i>rtr_vlink_end</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
<i>rtr_links_mismatch</i>	(Optional)

TABLE_rlsa	(Optional)
<i>rtr_link_type</i>	(Optional)
<i>rtr_link_id_str</i>	(Optional)
<i>rtr_link_id</i>	(Optional)
<i>rtr_link_data_str</i>	(Optional)
<i>rtr_link_data</i>	(Optional)
<i>rtr_link_num_tos</i>	(Optional)
<i>rtr_link_metric</i>	(Optional)
TABLE_rlinktos	(Optional)
<i>rtr_link_tos_id</i>	(Optional)
<i>rtr_link_tos_metric</i>	(Optional)
<i>net_mask</i>	(Optional)
TABLE_netlsa	(Optional)
<i>net_rtr</i>	(Optional)
<i>sum_mask</i>	(Optional)
<i>sum_metric</i>	(Optional)
TABLE_sumlsa	(Optional)
<i>sum_tos_id</i>	(Optional)
<i>sum_tos_metric</i>	(Optional)
<i>nssa_mask</i>	(Optional)
<i>nssa_metric_type2</i>	(Optional)
<i>nssa_metric</i>	(Optional)
<i>nssa_fwd_addr</i>	(Optional)
<i>nssa_tag</i>	(Optional)
TABLE_nssa	(Optional)
<i>nssa_tos_metric_type2</i>	(Optional)
<i>nssa_tos_id</i>	(Optional)
<i>nssa_tos_metric</i>	(Optional)
<i>nssa_tos_fwd_addr</i>	(Optional)

<i>nssa_tos_tag</i>	(Optional)
<i>asext_mask</i>	(Optional)
<i>asext_metric_type2</i>	(Optional)
<i>asext_metric</i>	(Optional)
<i>asext_fwd_addr</i>	(Optional)
<i>asext_tag</i>	(Optional)
TABLE_asext	(Optional)
<i>asext_tos_metric_type2</i>	(Optional)
<i>asext_tos_id</i>	(Optional)
<i>asext_tos_metric</i>	(Optional)
<i>asext_tos_fwd_addr</i>	(Optional)
<i>asext_tos_tag</i>	(Optional)
<i>opaque_link_intf</i>	(Optional)
<i>opaque_unknown</i>	(Optional)
<i>opaque_data_len</i>	(Optional)
<i>opaque_data</i>	(Optional)
<i>opaque_corrupt</i>	(Optional)
<i>tlv_type</i>	(Optional)
<i>tlv_len</i>	(Optional)
<i>tlv_data</i>	(Optional)
<i>tlv_unknown</i>	(Optional)
<i>gr_interval</i>	(Optional)
<i>gr_reason</i>	(Optional)
<i>gr_addr</i>	(Optional)
<i>te_frag_id</i>	(Optional)
<i>te_rtr_id</i>	(Optional)
<i>te_link_type</i>	(Optional)
<i>te_link_id</i>	(Optional)
<i>te_link_metric</i>	(Optional)

<i>te_link_max_bw</i>	(Optional)
<i>te_link_rsv_bw</i>	(Optional)
<i>te_link_unrsv_bw</i>	(Optional)
<i>te_link_admin</i>	(Optional)
<i>te_num_links</i>	(Optional)

**Command Mode**

- /exec

# show ip ospf interface

```
show ip ospf [ <tag> ] interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf <ifname> <admin_status> <proto_status> [
<unnumbered> ] <addr> [ <masklen> ] [ <parent_intf> ] <area> [ <if_cfg> ] <state_str> <type_str> <cost>
[ <bfd_enabled> ] [ <ldp_sync> ] [ <dc_enabled> ] [ <sid_index> ] [ <sid_n_flag_clear> ] [ <sid_exp_null>
] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid>
] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <lsu_timer> ]
[ <lsack_timer> ] [ <auth_type> ] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [
<auth_keyid> ] [ <auth_algo> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <multi_area_cnt> ] [ <multi_area_adj>
] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>admin_status</i>	(Optional)
<i>proto_status</i>	(Optional)
<i>unnumbered</i>	(Optional)

<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>parent_intf</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ldp_sync</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>sid_index</i>	(Optional)
<i>sid_n_flag_clear</i>	(Optional)
<i>sid_exp_null</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)



<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>auth_keyid</i>	(Optional)
<i>auth_algo</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>multi_area_cnt</i>	(Optional)
<i>multi_area_adj</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf interface brief

```
show ip ospf [ <tag> ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str>
<nbr_total> <admin_status> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPF interfaces
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>intf_count</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>index</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>state_str</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>admin_status</i>	(Optional)

### Command Mode

- /exec

## show ip ospf lsa-content-changed-list

```
show ip ospf [ <tag> ] lsa-content-changed-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__
[ TABLE_ctx <ptag> <cname> [ TABLE_lschg <nbr_rid> <intf> <nbr_addr> [ TABLE_lsa [ <type> ] [
<lsid> ] [ <advtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
lsa-content-changed-list	LSAs that changed contents
<i>interface</i>	OSPF enabled interface
<i>ip-addr</i>	Neighbor router ID
<i>neighbor-name</i>	DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_lschg	(Optional)
<i>nbr_rid</i>	(Optional)
<i>intf</i>	(Optional)
<i>nbr_addr</i>	(Optional)
TABLE_lsa	(Optional)
<i>type</i>	(Optional)
<i>lsid</i>	(Optional)
<i>advtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>age</i>	(Optional)

### Command Mode

- /exec

## show ip ospf neighbors

```
show ip ospf [ <tag> ] neighbors [ { { <interface> [ <neighbor> | <neighbor-name> ] } | { [ <neighbor> |
<neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } ] [ __readonly__ TABLE_ctx <ptag>
<cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <addr> <intf> [ <multiarea>
] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>nbrcount</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>priority</i>	(Optional)
<i>state</i>	(Optional)
<i>drstate</i>	(Optional)
<i>uptime</i>	(Optional)

<i>addr</i>	(Optional)
<i>intf</i>	(Optional)
<i>multiarea</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf neighbors detail

```
show ip ospf [ <tag> ] neighbors [ <interface> ] [ <neighbor> | <neighbor-name> ] detail [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_nbr <rid>
<addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state> ] [ <priority> ] [ <ifid> ] [ <dr> ] [
<dc> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [
<lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <helloptions> <dbdoptions> <lastnonhello> [ <deadtimer>
] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer>
] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq>
] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [ <sendlsreqreply> ] [ <sradsid> ] [ <sradjflags> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
neighbor-name	(Optional) DNS Name of the neighbor
detail	Show detailed neighbor display
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
addr	(Optional)



<i>area</i>	(Optional)
<i>intf</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastmonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>paddingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)

<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>dc</i>	(Optional)
<i>sradjsid</i>	(Optional)
<i>sradjflags</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf neighbors summary

```
show ip ospf [ <tag> ] neighbors [ <interface> ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <ptag> <cname> TABLE_intf { <ifname> | <total> } <down> <attempt> <init>
<twoway> <exstart> <exchange> <loading> <full> <if_total> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
summary	Summary of neighbors
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>total</i>	(Optional)
<i>down</i>	(Optional)
<i>attempt</i>	(Optional)
<i>init</i>	(Optional)
<i>twoway</i>	(Optional)
<i>exstart</i>	(Optional)
<i>exchange</i>	(Optional)

<i>loading</i>	(Optional)
<i>full</i>	(Optional)
<i>if_total</i>	(Optional)

**Command Mode**

- /exec

# show ip ospf request-list

```
show ip ospf [ <tag> ] request-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__ [ TABLE_ctx
<ptag> <cname> [ TABLE_lsreq <nbr_rid> <intf> <nbr_addr> <total> [ TABLE_lsa [ <type> ] [ <lsid> ] [
<advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
request-list	Link state request list
<i>interface</i>	OSPF enabled interface
<i>ip-addr</i>	Neighbor router ID
<i>neighbor-name</i>	DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_lsreq	(Optional)
<i>nbr_rid</i>	(Optional)
<i>intf</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>total</i>	(Optional)
TABLE_lsa	(Optional)
<i>type</i>	(Optional)
<i>lsid</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>age</i>	(Optional)

**Command Mode**

- /exec

# show ip ospf retransmission-list

```
show ip ospf [ <tag> ] retransmission-list { <routerid> | <router-name> } <interface> [ __readonly__ [
TABLE_ctx <ptag> <cname> [ TABLE_rxmit <nbr_rid> <intf> <nbr_addr> [ <timer_running> ] [ <timer_due>
] [ TABLE_lsa [ <type> ] [ <lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
retransmission-list	Link state retransmission list
routerid	Neighbor router ID
router-name	DNS Name of the router
interface	OSPF enabled interface
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_rxmit	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
timer_running	(Optional)
timer_due	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)

<i>age</i>	(Optional)
------------	------------

**Command Mode**

- /exec



## show ip ospf route

```
show ip ospf [ <tag> ] route [ <ip-addr> | <ip-prefix> [ longer-prefixes ] ] [ detail ] [ all_routes ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ <hdr_addr> ] [
<hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> [ <in_ulib> ] <in_rib> <direct> [ <area> ] [
<tag> ] [ <sid> ] [ <in_label> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr> ] [
<ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_sham_link> ] [
<ubest_nh_te_tun> ] [ <ubest_nh_in_rib> ] [ <out_label> ] [ <lsa> ] ] [ TABLE_route_mbest_nh [
<mbest_nh_addr> ] [ <mbest_nh_intf> ] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ]
]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-addr</i>	(Optional) Show single OSPF route
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
detail	(Optional) Detailed information
all_routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>hdr_addr</i>	(Optional)
<i>hdr_masklen</i>	(Optional)

TABLE_route	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_ulib</i>	(Optional)
<i>in_rib</i>	(Optional)
<i>direct</i>	(Optional)
<i>area</i>	(Optional)
<i>sid</i>	(Optional)
<i>in_label</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_route_ubest_nh	(Optional)
<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
<i>ubest_cost</i>	(Optional)
<i>distance</i>	(Optional)
<i>ubest_nh_direct</i>	(Optional)
<i>ubest_nh_sham_link</i>	(Optional)
<i>ubest_nh_te_tun</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
<i>out_label</i>	(Optional)
<i>lsa</i>	(Optional)
TABLE_route_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)
<i>mbest_cost</i>	(Optional)
<i>mbest_nh_direct</i>	(Optional)
<i>mbest_nh_in_rib</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf route summary

```
show ip ospf [ <tag> ] route [ <ip-prefix> [ longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_route <total_routes> <total_paths> [
TABLE_route_type <path_type> <path_routes> <path_paths> ] [ TABLE_route_masklen <masklen>
<masklen_routes> <masklen_paths> ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_route	(Optional)
<i>total_routes</i>	(Optional)
<i>total_paths</i>	(Optional)
TABLE_route_type	(Optional)
<i>path_type</i>	(Optional)
<i>path_routes</i>	(Optional)
<i>path_paths</i>	(Optional)

TABLE_route_masklen	(Optional)
<i>masklen</i>	(Optional)
<i>masklen_routes</i>	(Optional)
<i>masklen_paths</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf segment-routing adj-sid-database

```
show ip ospf [ <tag> ] segment-routing adj-sid-database [ detail ] [ __readonly__ TABLE_ctx <rid> <ptag>
<cname> [ { TABLE_segrt_adj_sid_db <sid_val> <nbr_id> <nbr_addr> <intf> [ <flags> ] [ <lsa> } ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
segment-routing	Segment-Routing information
adj-sid-database	Adjacency SID Database
detail	(Optional) Detailed Information
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_segrt_adj_sid_db	(Optional)
<i>sid_val</i>	(Optional)
<i>nbr_id</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>lsa</i>	(Optional)

### Command Mode

- /exec

## show ip ospf segment-routing global-block

```
show ip ospf [ <tag> ] segment-routing global-block [ <adv-rtr> ] [ detail ] [ __readonly__ TABLE_ctx <rid>
<ptag> <cname> [ { TABLE_segrt_global_block <area> <adv_router_id> <SR_capable> <SR_algo>
<SRGB_base> <SRGB_range> [ <ril_area> ] [ <lsa> } ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
segment-routing	Segment-Routing information
global-block	Global Block
<i>adv-rtr</i>	(Optional) Advertising Router ID
detail	(Optional) Detailed Information
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_segrt_global_block	(Optional)
<i>adv_router_id</i>	(Optional)
<i>SR_capable</i>	(Optional)
<i>SR_algo</i>	(Optional)
<i>SRGB_base</i>	(Optional)
<i>SRGB_range</i>	(Optional)
<i>area</i>	(Optional)
<i>ril_area</i>	(Optional)
<i>lsa</i>	(Optional)

### Command Mode

- /exec

## show ip ospf segment-routing sid-database

```
show ip ospf [ <tag> ] segment-routing sid-database [ <sid-id> ] [ detail ] [ __readonly__ TABLE_ctx <rid>
<ptag> <cname> [ { TABLE_segrt_sid_db <sid_val> <prefix> <prefix_mask> <own_prefix> [
<adv_rtr_vtx_reachable> ] [ <sid_conflict> ] [ <area> ] [ <route_type> ] [ <pfx_flags> ] [ <sid_flags> ] [
<lsa> ] [ <lsa_ref_count> } ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
segment-routing	Segment-Routing information
sid-database	SID Database
<i>sid-id</i>	(Optional) SID value
detail	(Optional) Detailed Information
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_segrt_sid_db	(Optional)
<i>sid_val</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>own_prefix</i>	(Optional)
<i>adv_rtr_vtx_reachable</i>	(Optional)
<i>sid_conflict</i>	(Optional)
<i>area</i>	(Optional)
<i>route_type</i>	(Optional)
<i>pfx_flags</i>	(Optional)



<i>sid_flags</i>	(Optional)
<i>lsa</i>	(Optional)
<i>lsa_ref_count</i>	(Optional)

**Command Mode**

- /exec



<i>masklen</i>	(Optional)
<i>parent_intf</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ldp_sync</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>sid_index</i>	(Optional)
<i>sid_n_flag_clear</i>	(Optional)
<i>sid_exp_null</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)

<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>auth_keyid</i>	(Optional)
<i>auth_algo</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>dest_ip</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>addr</i>	(Optional)
<i>area</i>	(Optional)
<i>intf</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)

<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf sham-links brief

```
show ip ospf [ <tag> ] sham-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <count> [ TABLE_slink <src_ip> <dest_ip> <ifnum> <area> <cost> <if_state>
]]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
brief	Display summary of OSPF sham links
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>count</i>	(Optional)
TABLE_slink	(Optional)
<i>src_ip</i>	(Optional)
<i>dest_ip</i>	(Optional)
<i>ifnum</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

### Command Mode

- /exec

## show ip ospf statistics

```
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats
<ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_recv> <nbr_state_change>
<nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full>
<spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush>
<net_generate> <net_refresh> <net_flush> <net_other_flush> <sum_generate> <sum_refresh> <sum_flush>
<sum_other_flush> <asbr_generate> <asbr_refresh> <asbr_flush> <asbr_other_flush> <asext_generate>
<asext_refresh> <asext_flush> <asext_other_flush> <opaque_link_generate> <opaque_link_refresh>
<opaque_link_flush> <opaque_link_other_flush> <opaque_area_generate> <opaque_area_refresh>
<opaque_area_flush> <opaque_area_other_flush> <opaque_as_generate> <opaque_as_refresh>
<opaque_as_flush> <opaque_as_other_flush> <limbo_lsa_count> <limbo_lsa_hwm> <limbo_lsa_deleted>
<limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [ <limbo_timer> ] <helloq_size>
<helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size>
<floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [
TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc>
<buf_free> ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
<i>__readonly__</i>	(Optional)
TABLE_stats	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>rid_change</i>	(Optional)
<i>dr_elections</i>	(Optional)
<i>older_lsa_recv</i>	(Optional)

<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>sum_generate</i>	(Optional)
<i>sum_refresh</i>	(Optional)
<i>sum_flush</i>	(Optional)
<i>sum_other_flush</i>	(Optional)
<i>asbr_generate</i>	(Optional)
<i>asbr_refresh</i>	(Optional)
<i>asbr_flush</i>	(Optional)
<i>asbr_other_flush</i>	(Optional)
<i>asext_generate</i>	(Optional)
<i>asext_refresh</i>	(Optional)
<i>asext_flush</i>	(Optional)
<i>asext_other_flush</i>	(Optional)



<i>opaque_link_generate</i>	(Optional)
<i>opaque_link_refresh</i>	(Optional)
<i>opaque_link_flush</i>	(Optional)
<i>opaque_link_other_flush</i>	(Optional)
<i>opaque_area_generate</i>	(Optional)
<i>opaque_area_refresh</i>	(Optional)
<i>opaque_area_flush</i>	(Optional)
<i>opaque_area_other_flush</i>	(Optional)
<i>opaque_as_generate</i>	(Optional)
<i>opaque_as_refresh</i>	(Optional)
<i>opaque_as_flush</i>	(Optional)
<i>opaque_as_other_flush</i>	(Optional)
<i>limbo_lsa_count</i>	(Optional)
<i>limbo_lsa_hwm</i>	(Optional)
<i>limbo_lsa_deleted</i>	(Optional)
<i>limbo_lsa_revived</i>	(Optional)
<i>limbo_runs</i>	(Optional)
<i>limbo_lsa_last_time_hwm</i>	(Optional)
<i>limbo_timer</i>	(Optional)
<i>helloq_size</i>	(Optional)
<i>helloq_max_size</i>	(Optional)
<i>helloq_hwm</i>	(Optional)
<i>helloq_drops</i>	(Optional)
<i>helloq_last_hwm_time</i>	(Optional)
<i>floodq_size</i>	(Optional)
<i>floodq_max_size</i>	(Optional)
<i>floodq_hwm</i>	(Optional)
<i>floodq_drops</i>	(Optional)
<i>floodq_last_hwm_time</i>	(Optional)

<i>lsdb_add_fail</i>	(Optional)
TABLE_buffer_detail	(Optional)
<i>buf_size</i>	(Optional)
<i>buf_size_huge</i>	(Optional)
<i>buf_in_use</i>	(Optional)
<i>buf_hwm</i>	(Optional)
<i>buf_perm</i>	(Optional)
<i>buf_alloc</i>	(Optional)
<i>buf_free</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf summary-address

```
show ip ospf [ <tag> ] summary-address [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ TABLE_ctx <ptag> <cname> <rid> [ TABLE_sum <addr> <masklen> [ <metric> ] [ <tag>
] [ <pending> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)
TABLE_sum	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>metric</i>	(Optional)
<i>pending</i>	(Optional)

### Command Mode

- /exec

## show ip ospf traffic

```
show ip ospf [ <tag> ] traffic [ <interface> [ detail ] | [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_traf <ptag> <cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out>
<lsu_first_trans> <lsu_retrans> <lsu_for_lsreq> <lsu_nbr_trans> <throttle_out> <throttle_out_token>
<throttle_out_ip> <lsa_ignored> <lsa_dropped_spf> <lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out>
<pkt_errors_in> <pkt_errors_out> <hello_errors_in> <dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in>
<lsacks_errors_in> <pkt_unknown_in> <pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc>
<dup_rtr_id> <dup_src_addr> <invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf>
<wrong_area> <invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> <bad_auth>
[ <pkt_no_vrf> ] [ <bad_reserved> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
<i>interface</i>	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
<i>__readonly__</i>	(Optional)
<i>TABLE_traf</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pkt_in</i>	(Optional)

<i>pkt_out</i>	(Optional)
<i>lsu_first_trans</i>	(Optional)
<i>lsu_retrans</i>	(Optional)
<i>lsu_for_lsreq</i>	(Optional)
<i>lsu_nbr_trans</i>	(Optional)
<i>throttle_out</i>	(Optional)
<i>throttle_out_token</i>	(Optional)
<i>throttle_out_ip</i>	(Optional)
<i>lsa_ignored</i>	(Optional)
<i>lsa_dropped_spf</i>	(Optional)
<i>lsa_dropped_gr</i>	(Optional)
<i>pkt_drops_in</i>	(Optional)
<i>pkt_drops_out</i>	(Optional)
<i>pkt_errors_in</i>	(Optional)
<i>pkt_errors_out</i>	(Optional)
<i>hello_errors_in</i>	(Optional)
<i>dbds_errors_in</i>	(Optional)
<i>lsreqs_errors_in</i>	(Optional)
<i>lsus_errors_in</i>	(Optional)
<i>lsacks_errors_in</i>	(Optional)
<i>pkt_unknown_in</i>	(Optional)
<i>pkt_unknown_out</i>	(Optional)
<i>pkt_no_ospf_intf</i>	(Optional)
<i>bad_version</i>	(Optional)
<i>bad_crc</i>	(Optional)
<i>dup_rtr_id</i>	(Optional)
<i>dup_src_addr</i>	(Optional)
<i>invalid_src_addr</i>	(Optional)
<i>invalid_dst_addr</i>	(Optional)

<i>non_existing_nbr</i>	(Optional)
<i>pkt_passive_intf</i>	(Optional)
<i>wrong_area</i>	(Optional)
<i>invalid_pkt_len</i>	(Optional)
<i>nbr_changed_routerid_ipaddr</i>	(Optional)
<i>nbr_changed_interfaceid</i>	(Optional)
<i>bad_auth</i>	(Optional)
<i>bad_reserved</i>	(Optional)
<i>pkt_no_vrf</i>	(Optional)
<i>hellos_in</i>	(Optional)
<i>dbds_in</i>	(Optional)
<i>lsreqs_in</i>	(Optional)
<i>lsus_in</i>	(Optional)
<i>lsacks_in</i>	(Optional)
<i>hellos_out</i>	(Optional)
<i>dbds_out</i>	(Optional)
<i>lsreqs_out</i>	(Optional)
<i>lsus_out</i>	(Optional)
<i>lsacks_out</i>	(Optional)
<i>hellos_in_hq</i>	(Optional)
<i>dbds_in_hq</i>	(Optional)
<i>lsreqs_in_flq</i>	(Optional)
<i>lsus_in_flq</i>	(Optional)
<i>lsacks_in_flq</i>	(Optional)
<i>lsas_in_dbds_in</i>	(Optional)
<i>lsas_in_lsreqs_in</i>	(Optional)
<i>lsas_in_lsus_in</i>	(Optional)
<i>lsas_in_lsacks_in</i>	(Optional)
<i>lsas_in_dbds_out</i>	(Optional)

<i>lsas_in_lsreqs_out</i>	(Optional)
<i>lsas_in_lsus_out</i>	(Optional)
<i>lsas_in_lsacks_out</i>	(Optional)
<i>lsas_in_rxmt_lsus_out</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf virtual-links

```
show ip ospf [ <tag> ] virtual-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_vlink <name> <nbr_rid> <if_state> <transit_area> <nh_intf> <nbr_addr> [
<transit_area_stub> ] [ <transit_area_nssa> ] <addr> [ <masklen> ] <area> [ <if_cfg> ] <state_str> <type_str>
<cost> <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [
<bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer>
] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type> ] [ <keychain_name> ] [
<keychain_ready> ] [ <auth_md5_keyid> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <dc_enabled> ] [ <state>
] [ <transition> ] [ <lastchange> ] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [
<dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts>
] [ <helloptions> ] [ <dbdoptions> ] [ <lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ]
[ <reqrxtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [
<helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt>
] [ <sendlsack> ] [ <sendlsrepreply> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_vlink	(Optional)
<i>name</i>	(Optional)
<i>nbr_rid</i>	(Optional)
<i>if_state</i>	(Optional)
<i>transit_area</i>	(Optional)



<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)

<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)

<i>lastmonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>paddingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf virtual-links brief

```
show ip ospf [ <tag> ] virtual-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <vlink_count> [ TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost>
<if_state> ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPF virtual links
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>vlink_count</i>	(Optional)
TABLE_vlink	(Optional)
<i>nbr_rid</i>	(Optional)
<i>vlink_num</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

### Command Mode

- /exec

## show ip pim config-sanity

```
show ip pim config-sanity [ __readonly__ [ TABLE_vrf [ <out-context> ] [ TABLE_RP [ <rp-addr> ] [
<rperr-count> ] [ <rp-interface> ] [ <rp-error> ] ] [ TABLE_ANYCAST [ <arperr-count> ] [ <anycastrp-addr>
] [ <arp-interface> ] [ <arp-error> ] [ <configure-as-RP> ] [ TABLE_MEMBER [ <memerr-count> ] [
<mem-interface> ] [ <mem-error> ] ] [ <found> ] ] [ TABLE_BSR [ <rp-cand-count> ] [ <rp-cand-interface>
] [ <rp-cand-error> ] [ <bsr-cand-count> ] [ <bsr-cand-interface> ] [ <bsr-cand-error> ] ] [ TABLE_AUTORP
[ <rp-cand-count> ] [ <rp-cand-interface> ] [ <rp-cand-error> ] [ <auto-cand-count> ] [ <auto-cand-interface>
] [ <auto-cand-error> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
config-sanity	Configuration Sanity check
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_RP	(Optional)
<i>rp-addr</i>	(Optional)
<i>rperr-count</i>	(Optional)
<i>rp-interface</i>	(Optional)
<i>rp-error</i>	(Optional)
TABLE_ANYCAST	(Optional)
<i>configure-as-RP</i>	(Optional)
<i>arperr-count</i>	(Optional)
<i>anycastrp-addr</i>	(Optional)
<i>arp-interface</i>	(Optional)
<i>arp-error</i>	(Optional)
TABLE_MEMBER	(Optional)
<i>memerr-count</i>	(Optional)
<i>mem-interface</i>	(Optional)
<i>mem-error</i>	(Optional)

<i>found</i>	(Optional)
TABLE_BSR	(Optional)
<i>rp-cand-count</i>	(Optional)
<i>rp-cand-interface</i>	(Optional)
<i>rp-cand-error</i>	(Optional)
<i>bsr-cand-count</i>	(Optional)
<i>bsr-cand-interface</i>	(Optional)
<i>bsr-cand-error</i>	(Optional)
TABLE_AUTORP	(Optional)
<i>rp-cand-count</i>	(Optional)
<i>rp-cand-interface</i>	(Optional)
<i>rp-cand-error</i>	(Optional)
<i>auto-cand-count</i>	(Optional)
<i>auto-cand-interface</i>	(Optional)
<i>auto-cand-error</i>	(Optional)

**Command Mode**

- /exec

# show ip pim df

```
show ip pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__ ]
[ TABLE_ctx [ <out-context> ] [ TABLE_rp [ <rp-addr> ] [ <df-ordinal> ] [ <df-bits> ] [ <df-bits-count> ]
[ <metric-pref> ] [ <metric> ] [ TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] ] [ TABLE_iod [
<if-name> ] [ <df-winner> ] [ <df-state> ] [ <winner-metric-pref> ] [ <winner-metric> ] [ <uptime> ] [ <is-rpf>
]]]]]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
df	Display Bidir Designated Forwarders
<i>rp-or-group</i>	(Optional) Display for a single RP or group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)

TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>df-winner</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

**Command Mode**

- /exec



# show ip pim fabric info

```
show ip pim fabric info [ __readonly__ <switch_role> <fabric_ctrl_addr> <peer_fabric_ctrl_infra>
<vpc_domain_id> <peer_fabric_ctrl_addr> ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
info	show the fabric info
<i>__readonly__</i>	(Optional)
<i>switch_role</i>	(Optional)
<i>fabric_ctrl_addr</i>	(Optional)
<i>peer_fabric_ctrl_infra</i>	(Optional)
<i>vpc_domain_id</i>	(Optional)
<i>peer_fabric_ctrl_addr</i>	(Optional)

## Command Mode

- /exec

# show ip pim fabric legacy-vlans

show ip pim fabric legacy-vlans [ *\_\_readonly\_\_* *TABLE\_legacy\_vlan* <*vlan\_id*> ]

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
<i>__readonly__</i>	(Optional)
<i>TABLE_legacy_vlan</i>	(Optional)
<i>vlan_id</i>	(Optional)

## Command Mode

- /exec

# show ip pim group-range

```
show ip pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf <out-context> [ { TABLE_group <grp-addr> [ <invalid-grp> ] [ <action> ] [ <mode> ] [ <rp-addr>
] [ <sh-tree-only-range> ] [ <origin> } ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
group-range	Display the various group-ranges
<i>group</i>	(Optional) IP address of group to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>mode</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>sh-tree-only-range</i>	(Optional)
<i>action</i>	(Optional)
<i>origin</i>	(Optional)

## Command Mode

- /exec

## show ip pim host-proxy

show ip pim host-proxy [ \_\_readonly\_\_ TABLE\_intf <intf-name> ]

### Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
host-proxy	host-proxy
__readonly__	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)

### Command Mode

- /exec

# show ip pim interface

```
show ip pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [
__readonly__ ] [ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name> ] [ <if-addr>
] [ <if-dr> ] [ <if-nbr-count> ] [ <if-is-border> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [
<cached_if_status> ] [ <if-addr-summary> ] [ <pim-dr-address> ] [ <dr-priority> ] [ <no-dr-priority> ] [
<nbr-cnt> ] [ <hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-msec> ] [
<holdtime-sec> ] [ <if-conf-dr-priority> ] [ <if-conf-delay> ] [ <is-border> ] [ <genid> ] [ <isauth-config> ]
[ <nbr-policy-name> ] [ <jp-in-policy-name> ] [ <jp-out-policy-name> ] [ <jp-interval> ] [ <jp-next-send> ]
[ <pim-bfd-enabled> ] [ <is-passive> ] [ <is-pim-vpc-svi> ] [ <is-auto-enabled> ] [ <vpc-peer-nbr> ] [
<last-cleared> ] [ <hello-sent> ] [ <hello-rcvd> ] [ <hello-early-sent> ] [ <jp-sent> ] [ <jp-rcvd> ] [ <assert-sent>
] [ <assert-rcvd> ] [ <graft-sent> ] [ <graft-rcvd> ] [ <graft-ack-sent> ] [ <graft-ack-rcvd> ] [ <df-offer-sent>
] [ <df-offer-rcvd> ] [ <df-winner-sent> ] [ <df-winner-rcvd> ] [ <df-backoff-sent> ] [ <df-backoff-rcvd> ] [
<pass-sent> ] [ <pass-rcvd> ] [ <cksum-errors> ] [ <invalid-errors> ] [ <invalid-df-errors> ] [ <auth-failed>
] [ <pak-len-errors> ] [ <ver-errors> ] [ <pkts-self> ] [ <pkts-non-nbr> ] [ <pkts-on-passive> ] [ <jp-rcvd-on-rpf>
] [ <jp-rcvd-no-rp> ] [ <jp-rcvd-wrong-rp> ] [ <jp-rcvd-for-ssm> ] [ <jp-rcvd-for-bidir> ] [ <jp-in-policy-filter>
] [ <jp-out-policy-filter> ] [ <ecmp-redirect-sent> ] [ <ecmp-redirect-rcvd> ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
interface	Display PIM interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_brief	(Optional)
<i>if-name</i>	(Optional)

<i>if-addr</i>	(Optional)
<i>if-dr</i>	(Optional)
<i>if-nbr-count</i>	(Optional)
<i>if-is-border</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>cached_if_status</i>	(Optional)
<i>if-addr-summary</i>	(Optional)
<i>pim-dr-address</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>if-conf-dr-priority</i>	(Optional)
<i>if-conf-delay</i>	(Optional)
<i>is-border</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>jp-interval</i>	(Optional)
<i>jp-next-send</i>	(Optional)
<i>pim-bfd-enabled</i>	(Optional)

<i>is-passive</i>	(Optional)
<i>is-pim-vpc-svi</i>	(Optional)
<i>is-auto-enabled</i>	(Optional)
<i>vpc-peer-nbr</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>hello-early-sent</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)
<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)

<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)
<i>ecmp-redirect-sent</i>	(Optional)
<i>ecmp-redirect-recv</i>	(Optional)

**Command Mode**

- /exec



## show ip pim mdt

```
show ip pim mdt [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <out_context>
<mti> <mti_status> <default_mdt_grp> <grp_mode> <asm_shared_tree> <mti_config_mtu> <mti_active_mtu>
<cfg_tunnel_src_if> <bgp_update_src_if> <hello_interval> <jp_interval> <data_mdt_join_interval>
<data_switchover_interval> <data_holddown_interval> <data_timeout_interval> <mdt_src> <mdt_src_if>
<bgp_rd> <bgp_rd_set> <send_join_count> <rcvd_join_count> { TABLE_data_mdt <grange_prefix>
<grange_mask_len> <threshold> [ <policy_name> ] } ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
<i>mti</i>	(Optional)
<i>mti_status</i>	(Optional)
<i>default_mdt_grp</i>	(Optional)
<i>grp_mode</i>	(Optional)
<i>asm_shared_tree</i>	(Optional)
<i>mti_config_mtu</i>	(Optional)
<i>mti_active_mtu</i>	(Optional)
<i>cfg_tunnel_src_if</i>	(Optional)
<i>bgp_update_src_if</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>jp_interval</i>	(Optional)

<i>data_mdt_join_interval</i>	(Optional)
<i>data_switchover_interval</i>	(Optional)
<i>data_holddown_interval</i>	(Optional)
<i>data_timeout_interval</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_src_if</i>	(Optional)
<i>bgp_rd</i>	(Optional)
<i>bgp_rd_set</i>	(Optional)
<i>send_join_count</i>	(Optional)
<i>rcvd_join_count</i>	(Optional)
TABLE_data_mdt	(Optional)
<i>grange_prefix</i>	(Optional)
<i>grange_mask_len</i>	(Optional)
<i>threshold</i>	(Optional)
<i>policy_name</i>	(Optional)

**Command Mode**

- /exec

# show ip pim mdt bgp

```
show ip pim mdt bgp [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry <bgp_rd> <mdt_src>
<mdt_grp> <local> } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
bgp	Display BGP related information
mdt-source	(Optional) Source address of MVPN neighbor
<i>src-addr</i>	(Optional) Source Address
<i>__readonly__</i>	(Optional)
TABLE_entry	(Optional)
<i>bgp_rd</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_grp</i>	(Optional)
<i>local</i>	(Optional)

## Command Mode

- /exec

## show ip pim mdt history interval

```
show ip pim mdt history interval <min> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
history	Display MDT Data Join Send Histoy
interval	Display in specified interval
<i>min</i>	Minutes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

### Command Mode

- /exec

# show ip pim mdt receive

```
show ip pim mdt receive [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
[ <out_context> ] [ TABLE_entry [ <csrc> ] [ <cgrp> ] [ <psrc> ] [ <pgrp> ] [ <uptime> ] [ <expires> ] [
<rcv_count> ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
receive	Display Received Data Joins Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>rcv_count</i>	(Optional)

## Command Mode

- /exec

## show ip pim mdt send

```
show ip pim mdt send [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
send	Display MDT Data Join Send Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

### Command Mode

- /exec

# show ip pim neighbor

```
show ip pim neighbor { [ <interface> ] | [ <ipaddr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail
| internal ] [ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor
<nbr-addr><if-name><uptime><expires> [ <dr-priority> ] <bidir-capable><bfd-state> [
<longest-hello-intvl><non-hello-pkts> ] [ <ecmp-redirect-capable> ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
neighbor	Display PIM neighbor related information
<i>interface</i>	(Optional) Display neighbors on single interface name
<i>ipaddr</i>	(Optional) IP address of single neighbor to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_neighbor	(Optional)
<i>dr-priority</i>	(Optional)
<i>ecmp-redirect-capable</i>	(Optional)

## Command Mode

- /exec

# show ip pim oif-list

```
show ip pim oif-list <group> [ <source> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf-name> [ { TABLE_grp [ <mcast-addr> ] [ <incoming-intf> ] [ <rpf-nbr> ] [
<timeout-interval> ] [ <oif-list-count> ] [ { TABLE_oiflist <oif-name> } ] [ <timeout-list-count> ] [ {
TABLE_timeoutlist <timeoutoif-name> } ] [ <immediate-list-count> ] [ { TABLE_immediatelist
<immediateoif-name> } ] [ <immediate-timeout-list-count> ] [ { TABLE_immediatetimetoutlist
<immediatetimeoutoif-name> } ] ] [ <sgr-prune-list-count> ] [ { TABLE_sgrprunelist <sgrprunelistoif-name>
} ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
oif-list	Display interfaces for oif-list of PIM route
source	(Optional) Source address to display
group	Group address to display
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
TABLE_grp	(Optional)
mcast-addr	(Optional)
incoming-intf	(Optional)
rpf-nbr	(Optional)
timeout-interval	(Optional)
oif-list-count	(Optional)
TABLE_oiflist	(Optional)
oif-name	(Optional)
timeout-list-count	(Optional)



TABLE_timeoutlist	(Optional)
<i>timeoutoif-name</i>	(Optional)
<i>immediate-list-count</i>	(Optional)
TABLE_immediatelist	(Optional)
<i>immediateoif-name</i>	(Optional)
<i>immediate-timeout-list-count</i>	(Optional)
TABLE_immediatettimeoutlist	(Optional)
<i>immediatettimeoutoif-name</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>sgrprunelistoif-name</i>	(Optional)

**Command Mode**

- /exec

## show ip pim policy statistics

```
show ip pim policy statistics { register-policy | bsr { bsr-policy | rp-candidate-policy } | auto-rp {
rp-candidate-policy | mapping-agent-policy } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf_name_stats> { TABLE_routemap <name> <action> <seq_num> [ { TABLE_cmd
<command> <compare_count> <match_count> } ] } <total_accept_count> <total_reject_count> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
register-policy	Statistics for Register policy
bsr	Bootstrap protocol RP-distribution policy
bsr-policy	Statistics for filtered BSR messages
rp-candidate-policy	Statistics for filtered RP candidate messages
auto-rp	Statistics for auto-rp messages
rp-candidate-policy	Statistics for filtered RP candidate messages
mapping-agent-policy	Statistics for filtered mapping agent messages
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf_name_stats</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)

TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

**Command Mode**

- /exec

## show ip pim policy statistics jp

```
show ip pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<name> <action> <seq_num> [ { TABLE_cmd <command> <compare_count> <match_count> } ] }
<total_accept_count> <total_reject_count> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface to display policy statistics for
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

### Command Mode

- /exec

## show ip pim route

```
show ip pim route [ [ <source> [ <group> ] ] | [ <group> [ <source> ] ] ] [ bitfield ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf [ <context-name> ] [ <route-count> ] [
TABLE_one_route [ <mcast-addr> ] [ <rp-addr> ] [ <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <sgexpire> ]
[ <timeleft> ] [ <rp-bit> ] [ <register> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr> ] [ <intf-name-2> ]
[ <rpf-nbr-2> ] [ <uptime> ] [ <is-attached> ] [ <is-static> ] [ <zero-nonpim-oifs> ] [ <is-external> ] [
<otv-decap> ] [ <otv-router-mode> ] [ <non-dr-oifs-only> ] [ <data-created> ] [ <mdt-encap> ] [ <mdt-decap>
] [ <vxlan-decap> ] [ <vxlan-encap> ] [ <sw-pkts> ] [ <sw-bytes> ] [ <hw-pkts> ] [ <hw-bytes> ] [ <rpf-src>
] [ <mrib-rpf-notify> ] [ <add-pending> ] [ <aged-route> ] [ <sg-expiry-cfg> ] [ <jp-holdtime> ] [
<route-metric-internal> ] [ <metric-pref-internal> ] [ <delay-register-stop> ] [ <register-stop-rcvd> ] [
<lisp-src-rloc> ] [ TABLE_lisp_encap [ <encap-src-rloc> ] [ <encap-dst-rloc> ] [ <timeout-count> ] [
<add-pending> ] [ <del-pending> ] ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [ <timeout-bf-str> ]
[ <immediate-count> ] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [ <immediate-timeout-bf-str>
] [ <sg-prune-list-count> ] [ <sg-prune-list-bf-str> ] [ <timeout-interval> ] [ <jp-holdtime-rndup> ] [
<mdt-encap-index> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
route	Display PIM specific route information
<i>group</i>	(Optional) Group address to display
<i>source</i>	(Optional) Source address to display
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)

<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>sgrexpire</i>	(Optional)
<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>intf-name-2</i>	(Optional)
<i>rpf-nbr-2</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-attached</i>	(Optional)
<i>is-static</i>	(Optional)
<i>zero-nonpim-oifs</i>	(Optional)
<i>is-external</i>	(Optional)
<i>otv-decap</i>	(Optional)
<i>otv-router-mode</i>	(Optional)
<i>non-dr-oifs-only</i>	(Optional)
<i>data-created</i>	(Optional)
<i>mdt-encap</i>	(Optional)
<i>mdt-decap</i>	(Optional)
<i>vxlan-decap</i>	(Optional)
<i>vxlan-encap</i>	(Optional)
<i>sw-pkts</i>	(Optional)
<i>sw-bytes</i>	(Optional)
<i>hw-pkts</i>	(Optional)
<i>hw-bytes</i>	(Optional)

<i>rpf-src</i>	(Optional)
<i>mrib-rpf-notify</i>	(Optional)
<i>add-pending</i>	(Optional)
<i>aged-route</i>	(Optional)
<i>sg-expiry-cfg</i>	(Optional)
<i>jp-holdtime</i>	(Optional)
<i>route-metric-internal</i>	(Optional)
<i>metric-pref-internal</i>	(Optional)
<i>delay-register-stop</i>	(Optional)
<i>register-stop-rcvd</i>	(Optional)
<i>lisp-src-rloc</i>	(Optional)
TABLE_lisp_encap	(Optional)
<i>encap-src-rloc</i>	(Optional)
<i>encap-dst-rloc</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>add-pending</i>	(Optional)
<i>del-pending</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oif-bf-str</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>timeout-bf-str</i>	(Optional)
<i>immediate-count</i>	(Optional)
<i>immediate-bf-str</i>	(Optional)
<i>immediate-timeout-count</i>	(Optional)
<i>immediate-timeout-bf-str</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
<i>sgr-prune-list-bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime-rndup</i>	(Optional)

<i>mdt-encap-index</i>	(Optional)
------------------------	------------

**Command Mode**

- /exec



# show ip pim rp-hash

```
show ip pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
[ <rp-found> ] [ <is-rp-bsr-learnt> ] [ <out-group1> <rp-addr1> ] [ <out-group> <hash-length> <out-bsr> ]
[ { TABLE_rp <rp-addr> <hash> <isbest_hash> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp-hash	Display RP hash value for group
<i>group</i>	Group address for RP lookup
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learnt</i>	(Optional)
<i>out-group1</i>	(Optional)
<i>rp-addr1</i>	(Optional)
<i>out-group</i>	(Optional)
<i>hash-length</i>	(Optional)
<i>out-bsr</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

## Command Mode

- /exec

# show ip pim rp

```
show ip pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__ [
TABLE_vrf <out-context> [ <is-bsr-enabled> ] [ <is-bsr-listen-only> ] [ <is-bsr-forward-only> ] [ <bsr-address>
] [ <is-bsr-local> ] [ <bs-timer> ] [ <bsr-uptime> ] [ <bsr-expires> ] [ <bsr-priority> ] [ <bsr-hash-masklen>
] [ <is-autorp-enabled> ] [ <is-autorp-listen-only> ] [ <is-autorp-forward-only> ] [ <auto-rp-addr> ] [
<is-autorp-local> ] [ <autorp-dis-timer> ] [ <autorp-cand-address> ] [ <autorp-up-time> ] [ <autorp-expire-time>
] [ <rp-cand-policy-name> ] [ <bsr-policy-name> ] [ <rp-announce-policy-name> ] [
<rp-discovery-policy-name> ] [ TABLE_anycast_rp <anycast-rp-addr> [ TABLE_arp_rp <arp-rp-addr>
<is-rpaddr-local> ] [ TABLE_rp [ <rp-addr> ] [ <is-rp-local> ] [ <df-ordinal> ] [ <rp-uptime> ] [ <rp-priority>
] [ <is_autorp_source> ] [ <is_bsr_source> ] [ <is_static_source> ] [ <rp-source> ] [ <static-rp-group-map>
] [ TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] [ <grange-is-deny> ] [ <is-bidir-grp> ] [
<autorp-expires> ] [ <bsr-rp-expires> ] [ <rp-owner-flags> ] [ [ <bidir-ordinal> ] [ <df-bits-recovered> ] [
<rpf-nbr-address> ] [ <metric> ] [ <metric-preference> ] ] ] ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp	Display PIM RP, Auto-RP, and BSR related information
<i>group</i>	(Optional) Display RP for group address
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
<i>is-bsr-enabled</i>	(Optional)
<i>is-bsr-listen-only</i>	(Optional)
<i>is-bsr-forward-only</i>	(Optional)
<i>bsr-address</i>	(Optional)
<i>is-bsr-local</i>	(Optional)
<i>bsr-priority</i>	(Optional)

<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)
<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)
<i>is-autorp-enabled</i>	(Optional)
<i>is-autorp-listen-only</i>	(Optional)
<i>is-autorp-forward-only</i>	(Optional)
<i>auto-rp-addr</i>	(Optional)
<i>autorp-cand-address</i>	(Optional)
<i>is-autorp-local</i>	(Optional)
<i>autorp-dis-timer</i>	(Optional)
<i>autorp-up-time</i>	(Optional)
<i>autorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
<i>anycast-rp-addr</i>	(Optional)
TABLE_arp_rp	(Optional)
<i>arp-rp-addr</i>	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>is-rp-local</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>is_autorp_source</i>	(Optional)

<i>is_bsr_source</i>	(Optional)
<i>is_static_source</i>	(Optional)
<i>rp-source</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
<i>grange-is-deny</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>autorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>rp-owner-flags</i>	(Optional)
<i>bidir-ordinal</i>	(Optional)
<i>df-bits-recovered</i>	(Optional)
<i>rpf-nbr-address</i>	(Optional)
<i>metric</i>	(Optional)
<i>metric-preference</i>	(Optional)

**Command Mode**

- /exec

## show ip pim statistics

```
show ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name>
[ <uptime> <reg-sent> <reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd>
<reg-rcvd-not-rp> <reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent>
<cand-rp-rcvd> <bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen>
<candrp-border-deny> <candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd>
<autorp-discovery-sent> <autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny>
<autorp-invalid-type> <autorp-ttl-expired> <autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state>
<create-state> ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)

<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)
<i>cand-rp-sent</i>	(Optional)
<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

**Command Mode**

- /exec

# show ip pim vrf

```
show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ __readonly__ {
TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM is configured for
detail	(Optional) Display detailed information
internal	(Optional) VRF related internal information
__readonly__	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)
<i>bfd</i>	(Optional)
<i>mvpn</i>	(Optional)

## Command Mode

- /exec

## show ip ping source-interface

```
show ip ping source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ippingvrf
<vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ippingvrf	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec



## show ip ping source-interface vrf all

```
show ip ping source-interface vrf all [ __readonly__ [ { TABLE_ipping <vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipping	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec

# show ip policy

```
show ip policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

## Command Mode

- /exec

## show ip prefix-list

```
show ip prefix-list { { [ detail | summary ] [ <ipv4-pfl-name> | <ipv4-pfl-cfg-name> ] } | { <ipv4-pfl-name>
| <ipv4-pfl-cfg-name> } seq <seq-no> } | { { <ipv4-pfl-name> | <ipv4-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ip_pfl <name> <seq> <action> <rule> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
prefix-list	List IP prefix lists
<i>ipv4-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv4-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ip_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

### Command Mode

- /exec

## show ip process

```
show ip process [ api ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ip_pro_vrf
[ { <pro-cntxt-name> <pro-cntxt-id> <pro-base-tid> <pro-auto-disc> <pro-atuo-add> <pro-null-bcast>
<auto-punt-bcast> <static-disc> <static-def-route> <ip-unreach> } ] [ TABLE_pro_api [ <api-vrf>
<api-cntxt-id> <api-base-tid> <api-ip-addr> <api-rtr-id-iod> ] ] [ TABLE_iod [ { <entry-iod> } ] ] [
TABLE_local_addr [ { <local-addr> } ] ] ] [ TABLE_ip_pro_all { <all-pro-cntxt-name> <all-pro-cntxt-id>
} ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
process	Display IP global information
api	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ip_pro_vrf	(Optional)
<i>pro-cntxt-name</i>	(Optional)
<i>pro-cntxt-id</i>	(Optional)
<i>pro-base-tid</i>	(Optional)
<i>pro-auto-disc</i>	(Optional)
<i>pro-atuo-add</i>	(Optional)
<i>pro-null-bcast</i>	(Optional)
<i>auto-punt-bcast</i>	(Optional)
<i>static-disc</i>	(Optional)
<i>static-def-route</i>	(Optional)
<i>ip-unreach</i>	(Optional)
TABLE_pro_api	(Optional)
<i>api-vrf</i>	(Optional)

<i>api-cntxt-id</i>	(Optional)
<i>api-base-tid</i>	(Optional)
<i>api-ip-addr</i>	(Optional)
<i>api-rtr-id-iod</i>	(Optional)
TABLE_iod	(Optional)
<i>entry-iod</i>	(Optional)
TABLE_local_addr	(Optional)
<i>local-addr</i>	(Optional)
TABLE_ip_pro_all	(Optional)
<i>all-pro-cntxt-name</i>	(Optional)
<i>all-pro-cntxt-id</i>	(Optional)

**Command Mode**

- /exec

## show ip rip

```
show { ipv6 | ip } rip [ instance <inst> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_mode <isolate-mode> <mmode> [ TABLE_inst <inst-name> TABLE_vrf [ <vrf> ]
<rip-shut-globally-in-this-vrf> <port> <mcast-grp> <admin-dist> <update-tmr> <expire-tmr> <garbage-tmr>
<def-metric> <max-paths> <def-rt-distrib> <def-distrib-always> <process-disabled> <out-of-mem> TABLE_afi
<af> [ TABLE_interface <if-name> ] TABLE_redistrib <redistributing> [ TABLE_clients <pibname> <policy>
] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_mode	(Optional)
<i>isolate-mode</i>	(Optional)
<i>mmode</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>rip-shut-globally-in-this-vrf</i>	(Optional)
<i>port</i>	(Optional)
<i>mcast-grp</i>	(Optional)
<i>admin-dist</i>	(Optional)

<i>update-tmr</i>	(Optional)
<i>expire-tmr</i>	(Optional)
<i>garbage-tmr</i>	(Optional)
<i>def-metric</i>	(Optional)
<i>max-paths</i>	(Optional)
<i>def-rt-distrib</i>	(Optional)
<i>def-distrib-always</i>	(Optional)
<i>process-disabled</i>	(Optional)
<i>out-of-mem</i>	(Optional)
TABLE_afi	(Optional)
<i>af</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
TABLE_redistrib	(Optional)
<i>redistributing</i>	(Optional)
TABLE_clients	(Optional)
<i>pibname</i>	(Optional)
<i>policy</i>	(Optional)

**Command Mode**

- /exec

## show ip rip interface

```
show { ipv6 | ip } rip [ instance <inst> ] interface [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ [ TABLE_inst <inst-name> TABLE_vrf [ <vrf> ] [ TABLE_inter
<if-name> <if-status> <protocol-up> <local-only> <no-addr-conf> [ <if-addr> <if-mask> ] <if-metric>
<poison-reverse> <if-passive> <route-dist-filter> [ <in-policy> ] [ <out-policy> ] { TABLE_auth <auth-ena>
[ <auth-type> <auth-keychain> } ] [ TABLE_detail <import-routes> [ <periodic-updates> <trigger-updates>
<out-mcast-request> <out-ucast-update> <out-ucast-request> <in-mcast-update> <in-mcast-request>
<in-ucast-update> <in-ucast-request> <bad-pkt> <bad-route> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
interface	RIP interface
<i>interface</i>	(Optional) RIP interface
detail	(Optional) Detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_inter	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>protocol-up</i>	(Optional)



<i>local-only</i>	(Optional)
<i>no-addr-conf</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>if-mask</i>	(Optional)
<i>if-metric</i>	(Optional)
<i>poison-reverse</i>	(Optional)
<i>if-passive</i>	(Optional)
<i>route-dist-filter</i>	(Optional)
<i>in-policy</i>	(Optional)
<i>out-policy</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-ena</i>	(Optional)
<i>auth-type</i>	(Optional)
<i>auth-keychain</i>	(Optional)
TABLE_detail	(Optional)
<i>import-routes</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)
<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

### Command Mode

- /exec

## show ip rip neighbor

```
show { ipv6 | ip } rip [ instance <inst> ] neighbor [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ [ TABLE_inst <inst-name> TABLE_vrf [ <vrf> ] <numberof-adj> <dead-timer-seconds>
[ TABLE_adj <adj-addr> <if-name> [ <last-response-sent-state> ] [ <last-response-sent> ] [
<last-response-rcvd-state> ] [ <last-response-rcvd> ] [ <last-request-sent-state> ] [ <last-request-sent> ] [
<last-request-rcvd-state> ] [ <last-request-rcvd> ] <in-bad-packets> <in-bad-routes> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
neighbor	RIP neighbor
<i>interface</i>	(Optional) RIP interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>numberof-adj</i>	(Optional)
<i>dead-timer-seconds</i>	(Optional)
TABLE_adj	(Optional)
<i>adj-addr</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-response-sent-state</i>	(Optional)

<i>last-response-sent</i>	(Optional)
<i>last-response-rcvd-state</i>	(Optional)
<i>last-response-rcvd</i>	(Optional)
<i>last-request-sent-state</i>	(Optional)
<i>last-request-sent</i>	(Optional)
<i>last-request-rcvd-state</i>	(Optional)
<i>last-request-rcvd</i>	(Optional)
<i>in-bad-packets</i>	(Optional)
<i>in-bad-routes</i>	(Optional)

**Command Mode**

- /exec

## show ip rip policy statistics redistribute

```
show ip rip [ instance <inst> ] policy statistics redistribute { bgp <asn> | { eigrp | isis | <src-rip> | ospf } <tag>
| direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf
<vrf> [ TABLE_rmap [ <name> <action> <seq_num> ] [ TABLE_cmd <command> [ <compare_count> ]
<match_count> ] ] <total_accept_count> <total_reject_count> ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>as</i>	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table

<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_rmap	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq_num</i>	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
<i>command</i>	(Optional) Route-map command
<i>compare_count</i>	(Optional) Number of comparisons
<i>match_count</i>	(Optional) Number of matches
<i>total_accept_count</i>	(Optional) Total number of packets accepted by the policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by the policy

**Command Mode**

- /exec

## show ip rip route

```
show { ipv6 | ip } rip [ instance <inst> ] route [ { <ipv6-prefix> | <ip-prefix> } [ { longer-prefixes |
shorter-prefixes } ] ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_inst
<inst-name> TABLE_vrf [ <vrf> ] TABLE_issummary <is-summary> [ TABLE_route <rt-prefix> <rt-mask>
<rt-numnh> <best-route> [ TABLE_nexthop [ <nh-addr> ] [ <nh-interface> ] [ <nh-metric> ] [ <nh-tag> ] [
<nh-direct> ] [ <nh-redistrib> ] [ <nh-state> ] [ <nh-state-timer> ] ] ] [ TABLE_summary <total-num-rts>
<total-best-rts> <total-paths> [ TABLE_rtspermask <mask-length> <rts-per-mask> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
route	RIP routes
summary	(Optional) route counts
<i>ip-prefix</i>	(Optional) Exact prefix
longer-prefixes	(Optional) exact match and more specific routes
shorter-prefixes	(Optional) exact match and less specific routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_issummary	(Optional)
<i>is-summary</i>	(Optional)

TABLE_route	(Optional)
<i>rt-prefix</i>	(Optional)
<i>rt-mask</i>	(Optional)
<i>rt-nummh</i>	(Optional)
<i>best-route</i>	(Optional)
TABLE_nexthop	(Optional)
<i>nh-addr</i>	(Optional)
<i>nh-interface</i>	(Optional)
<i>nh-metric</i>	(Optional)
<i>nh-tag</i>	(Optional)
<i>nh-direct</i>	(Optional)
<i>nh-redistrib</i>	(Optional)
<i>nh-state</i>	(Optional)
<i>nh-state-timer</i>	(Optional)
TABLE_summary	(Optional)
<i>total-num-rts</i>	(Optional)
<i>total-best-rts</i>	(Optional)
<i>total-paths</i>	(Optional)
TABLE_rtspermask	(Optional)
<i>mask-length</i>	(Optional)
<i>rts-per-mask</i>	(Optional)

### Command Mode

- /exec

## show ip rip statistics

```
show { ipv6 | ip } rip [ instance <inst> ] statistics [ * | <interface> ] [ __readonly__ [ TABLE_inst <inst-name>
TABLE_interface <if-name> [ <periodic-updates> <trigger-updates> <out-mcast-request> <out-ucast-update>
<out-ucast-request> <in-mcast-update> <in-mcast-request> <in-ucast-update> <in-ucast-request> <bad-pkt>
<bad-route> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
statistics	RIP statistics
<i>interface</i>	(Optional) RIP interface
*	(Optional) RIP statistics for all interfaces
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)



<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

**Command Mode**

- /exec

## show ip route

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

### Syntax Description

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

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

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

**Command Mode**

- /exec

# show ip sla application

```
show ip sla application [ __readonly__ <version> [ <line-length> ] <type-name> <feature-name>
<lowmemorymark> <max-entries> <probe-cap> <entries-config> <entries-active> <entries-pending>
<entries-inactive> <last-change-time> <rttMonApplReset> [ <rttMonApplTimeOfLastSet> ] ]
```

## Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
application	IP SLAs Application
<i>__readonly__</i>	(Optional)
<i>version</i>	(Optional)
<i>line-length</i>	(Optional)
<i>type-name</i>	(Optional)
<i>feature-name</i>	(Optional)
<i>lowmemorymark</i>	(Optional)
<i>max-entries</i>	(Optional)
<i>probe-cap</i>	(Optional)
<i>entries-config</i>	(Optional)
<i>entries-active</i>	(Optional)
<i>entries-pending</i>	(Optional)
<i>entries-inactive</i>	(Optional)
<i>last-change-time</i>	(Optional)
<i>rttMonApplReset</i>	(Optional) Appl Reset
<i>rttMonApplTimeOfLastSet</i>	(Optional)

## Command Mode

- /exec

## show ip sla configuration

```
show ip sla configuration [ <entry-num> ] [ __readonly__ { TABLE_configuration [ <index> ] [ <owner> ]
[ <tag> ] [ <timeout> ] [ <oper-type> ] [ <dest-ip> ] [ <source-int> ] [ <source-ip> ] [ <dest-port> ] [
<source-port> ] [ <dns-source-port> ] [ <traffic-class> ] [ <tos> ] [ <dns-name-server> ] [ <flow-label> ] [
<switch-id> ] [ <profile-id> ] [ <interface> ] [ <packet-size> ] [ <packet-interval> ] [ <num-packets> ] [
<codec-type> ] [ <codec-num-packets> ] [ <codec-packet-size> ] [ <codec-packet-interval> ] [
<codec-adv-factor> ] [ <verify-data> ] [ <data-pattern> ] [ <precision> ] [ <packet-priority> ] [
<ntp-sync-tolerance> ] [ <ntp-sync-to-type> ] [ <vrf-name> ] [ <control-enabled> ] [ <http-oper> ] [
<http-version> ] [ <url> ] [ <proxy> ] [ <raw-strings> ] [ <cache-control> ] [ <http-vrf-name> ] [ <http-owner>
] [ <http-tag> ] [ <http-timeout> ] [ <frequency> ] [ <secondary-freq-timeout> ] [ <secondary-freq-loss> ] [
<next-start-time> ] [ <group-scheduled> ] [ <randomly-scheduled> ] [ <low-frequency> ] [ <high-frequency>
] [ <life> ] [ <ageout> ] [ <recurring> ] [ <status-of-entry> ] [ <threshold> ] [ <hours> ] [ <buckets> ] [
<interval> ] [ <einterval> ] [ <ebuckets> ] [ <lives> ] [ <hsbuckets> ] [ <filter> ] } ]
```

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
configuration	IP SLA configurtaion
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
TABLE_configuration	(Optional) show ip sla configuration information
<i>index</i>	(Optional)
<i>owner</i>	(Optional)
<i>tag</i>	(Optional)
<i>timeout</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>source-int</i>	(Optional)
<i>source-ip</i>	(Optional)
<i>dest-port</i>	(Optional)
<i>source-port</i>	(Optional)
<i>dns-source-port</i>	(Optional)
<i>traffic-class</i>	(Optional)

<i>tos</i>	(Optional)
<i>dns-name-server</i>	(Optional)
<i>flow-label</i>	(Optional)
<i>profile-id</i>	(Optional)
<i>switch-id</i>	(Optional)
<i>interface</i>	(Optional)
<i>packet-size</i>	(Optional)
<i>packet-interval</i>	(Optional)
<i>num-packets</i>	(Optional)
<i>codec-type</i>	(Optional)
<i>codec-num-packets</i>	(Optional)
<i>codec-packet-size</i>	(Optional)
<i>codec-packet-interval</i>	(Optional)
<i>codec-adv-factor</i>	(Optional)
<i>verify-data</i>	(Optional)
<i>data-pattern</i>	(Optional)
<i>precision</i>	(Optional)
<i>packet-priority</i>	(Optional)
<i>ntp-sync-tolerance</i>	(Optional)
<i>ntp-sync-toltype</i>	(Optional)
<i>vrf-name</i>	(Optional)
<i>control-enabled</i>	(Optional)
<i>http-oper</i>	(Optional)
<i>http-version</i>	(Optional)
<i>url</i>	(Optional)
<i>proxy</i>	(Optional)
<i>raw-strings</i>	(Optional)
<i>cache-control</i>	(Optional)
<i>http-vrf-name</i>	(Optional)



<i>http-owner</i>	(Optional)
<i>http-tag</i>	(Optional)
<i>http-timeout</i>	(Optional)
<i>frequency</i>	(Optional)
<i>secondary-freq-timeout</i>	(Optional)
<i>secondary-freq-loss</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>group-scheduled</i>	(Optional)
<i>randomly-scheduled</i>	(Optional)
<i>low-frequency</i>	(Optional)
<i>high-frequency</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)
<i>recurring</i>	(Optional)
<i>status-of-entry</i>	(Optional)
<i>threshold</i>	(Optional)
<i>hours</i>	(Optional)
<i>buckets</i>	(Optional)
<i>interval</i>	(Optional)
<i>einterval</i>	(Optional)
<i>ebuckets</i>	(Optional)
<i>lives</i>	(Optional)
<i>hsbuckets</i>	(Optional)
<i>filter</i>	(Optional)

### Command Mode

- /exec

## show ip sla enhanced-history collection-statistics

```
show ip sla enhanced-history collection-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ [ { TABLE_generic [ <entry-num> ] [ <aggregate-interval> ] [ { TABLE_bkt [ <bkt-index> ]
[ <agg-sti> ] [ <tgt-addr> ] [ <oper-type> ] [ <nofod> ] [ <nofot> ] [ <nofob> ] [ <nofonc> ] [ <nofoie> ] [
<nofose> ] [ <nofove> ] [ <ntp-state> ] [ <icpif> ] [ <mos-score> ] [ <rtt-values> ] [ <num-rtt> ] [ <rtt-avg>
] [ <rtt-min> ] [ <rtt-max> ] [ <rtt-sum> ] [ <rtt-sum2> ] [ <num-out-sync-rtt> ] [ <plsd> ] [ <plds> ] [ <pos>
] [ <pl-mia> ] [ <pla> ] [ <int-err> ] [ <busies> ] [ <pkt-skipped> ] [ <jitter-value-precision> ] [ <min-pos-sd>
] [ <max-pos-sd> ] [ <num-pos-sd> ] [ <sum-pos-sd> ] [ <sum2-pos-sd> ] [ <min-neg-sd> ] [ <max-neg-sd>
] [ <num-neg-sd> ] [ <sum-neg-sd> ] [ <sum2-neg-sd> ] [ <min-pos-ds> ] [ <max-pos-ds> ] [ <num-pos-ds>
] [ <sum-pos-ds> ] [ <sum2-pos-ds> ] [ <min-neg-ds> ] [ <max-neg-ds> ] [ <num-neg-ds> ] [ <sum-neg-ds>
] [ <sum2-neg-ds> ] [ <jitter-avg> ] [ <jitter-sd-avg> ] [ <jitter-ds-avg> ] [ <inter-jit-out> ] [ <inter-jit-in> ]
[ <ow-precision> ] [ <num-ow> ] [ <ow-min-sd> ] [ <ow-max-sd> ] [ <ow-sum-sd> ] [ <ow-sum2-sd> ] [
<ow-min-ds> ] [ <ow-max-ds> ] [ <ow-sum-ds> ] [ <ow-sum2-ds> ] [ <avg-ow-sd> ] [ <avg-ow-ds> ] } ] [
<outstring> } } ] ]
```

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
collection-statistics	IP SLAs Collection Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>entry-num</i>	(Optional)
<i>aggregate-interval</i>	(Optional)
TABLE_bkt	(Optional) Show bucket History Information
<i>bkt-index</i>	(Optional)
<i>agg-sti</i>	(Optional)
<i>tgt-addr</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>nofod</i>	(Optional)

<i>nofot</i>	(Optional)
<i>nofob</i>	(Optional)
<i>nofonc</i>	(Optional)
<i>nofoie</i>	(Optional)
<i>nofose</i>	(Optional)
<i>nofove</i>	(Optional)
<i>ntp-state</i>	(Optional)
<i>icpif</i>	(Optional)
<i>mos-score</i>	(Optional)
<i>rtt-values</i>	(Optional)
<i>num-rtt</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-min</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>rtt-sum</i>	(Optional)
<i>rtt-sum2</i>	(Optional)
<i>num-out-sync-rtt</i>	(Optional)
<i>plsd</i>	(Optional)
<i>plds</i>	(Optional)
<i>pos</i>	(Optional)
<i>pl-mia</i>	(Optional)
<i>pla</i>	(Optional)
<i>int-err</i>	(Optional)
<i>busies</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>jitter-value-precision</i>	(Optional)
<i>min-pos-sd</i>	(Optional)
<i>max-pos-sd</i>	(Optional)
<i>num-pos-sd</i>	(Optional)

<i>sum-pos-sd</i>	(Optional)
<i>sum2-pos-sd</i>	(Optional)
<i>min-neg-sd</i>	(Optional)
<i>max-neg-sd</i>	(Optional)
<i>num-neg-sd</i>	(Optional)
<i>sum-neg-sd</i>	(Optional)
<i>sum2-neg-sd</i>	(Optional)
<i>min-pos-ds</i>	(Optional)
<i>max-pos-ds</i>	(Optional)
<i>num-pos-ds</i>	(Optional)
<i>sum-pos-ds</i>	(Optional)
<i>sum2-pos-ds</i>	(Optional)
<i>min-neg-ds</i>	(Optional)
<i>max-neg-ds</i>	(Optional)
<i>num-neg-ds</i>	(Optional)
<i>sum-neg-ds</i>	(Optional)
<i>sum2-neg-ds</i>	(Optional)
<i>jitter-avg</i>	(Optional)
<i>jitter-sd-avg</i>	(Optional)
<i>jitter-ds-avg</i>	(Optional)
<i>inter-jit-out</i>	(Optional)
<i>inter-jit-in</i>	(Optional)
<i>ow-precision</i>	(Optional)
<i>num-ow</i>	(Optional)
<i>ow-min-sd</i>	(Optional)
<i>ow-max-sd</i>	(Optional)
<i>ow-sum-sd</i>	(Optional)
<i>ow-sum2-sd</i>	(Optional)
<i>ow-min-ds</i>	(Optional)

<i>ow-max-ds</i>	(Optional)
<i>ow-sum-ds</i>	(Optional)
<i>ow-sum2-ds</i>	(Optional)
<i>avg-ow-sd</i>	(Optional)
<i>avg-ow-ds</i>	(Optional)
<i>outstring</i>	(Optional)

**Command Mode**

- /exec

## show ip sla enhanced-history distribution-statistics

```
show ip sla enhanced-history distribution-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ [ <hdr> ] [ { TABLE_generic [ <col1> ] [ <col2> ] [ <col3> ] } ] ]
```

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
distribution-statistics	IP SLAs Distribution Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>hdr</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>col1</i>	(Optional)
<i>col2</i>	(Optional)
<i>col3</i>	(Optional)

### Command Mode

- /exec

# show ip sla group schedule

```
show ip sla group schedule [ <group-operation-number> ] [ __readonly__ [ <entry-number> ] [ <probe-list>
] [ <num-probes> ] [ <sched-period> ] [ <mode> ] [ <low-freq> ] [ <high-freq> ] [ <freq> ] [ <snmp-status>
] [ <next-start-time> ] [ <life> ] [ <ageout> ] ]
```

## Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
group	IP SLAs Group Scheduling/Configuration
schedule	Group Scheduling
<i>group-operation-number</i>	(Optional) Group Schedule Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>probe-list</i>	(Optional)
<i>num-probes</i>	(Optional)
<i>sched-period</i>	(Optional)
<i>mode</i>	(Optional)
<i>low-freq</i>	(Optional)
<i>high-freq</i>	(Optional)
<i>freq</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)

## Command Mode

- /exec

## show ip sla history

```
show ip sla history [ <operation-number> ] [ tabular | full | interval-statistics ] [ __readonly__ [ <outstring> ] ] [ { TABLE_generic [ <index> ] [ <life-index> ] [ <bucket-index> ] [ <col1> ] [ <addr> ] [ <dest-id> ] [ <nsr> ] [ <st> ] [ <latest-rtt> ] [ <latest-ret-code> ] [ <col2> ] } ] [ <error> ] ]
```

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
history	IP SLAs History
<i>operation-number</i>	(Optional) Entry Number
tabular	(Optional) Compact Output
full	(Optional) Listed Output
interval-statistics	(Optional) Interval statistics output
<i>__readonly__</i>	(Optional)
<i>outstring</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>index</i>	(Optional)
<i>life-index</i>	(Optional)
<i>bucket-index</i>	(Optional)
<i>col1</i>	(Optional)
<i>addr</i>	(Optional)
<i>dest-id</i>	(Optional)
<i>nsr</i>	(Optional)
<i>st</i>	(Optional)
<i>latest-rtt</i>	(Optional)
<i>latest-ret-code</i>	(Optional)
<i>col2</i>	(Optional)
<i>error</i>	(Optional)

### Command Mode



- /exec

## show ip sla reaction-configuration

```
show ip sla reaction-configuration [ <entry-num> ] [ __readonly__ { TABLE_reaction [ <entry-number> ] [ <index> ] [ <reaction> ] [ <threshold-type> ] [ <rising-value> ] [ <falling-value> ] [ <threshold-countX> ] [ <threshold-countY> ] [ <action-type> ] [ <unconfigured> } ] }
```

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction Configuration
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
TABLE_reaction	(Optional)
<i>entry-number</i>	(Optional)
<i>index</i>	(Optional)
<i>reaction</i>	(Optional)
<i>threshold-type</i>	(Optional)
<i>rising-value</i>	(Optional)
<i>falling-value</i>	(Optional)
<i>threshold-countX</i>	(Optional)
<i>threshold-countY</i>	(Optional)
<i>action-type</i>	(Optional)
<i>unconfigured</i>	(Optional)

### Command Mode

- /exec

# show ip sla reaction-trigger

```
show ip sla reaction-trigger [ <entry-num> ] [ __readonly__ { TABLE_trigger [ <entry-number> ] [ <index>
] [ <target-entry> ] [ <snmp-status> ] [ <operational-state> ] [ <unconfigured> } } ]
```

## Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Reaction Trigger
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>TABLE_trigger</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>index</i>	(Optional)
<i>target-entry</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>operational-state</i>	(Optional)
<i>unconfigured</i>	(Optional)

## Command Mode

- /exec

## show ip sla responder

```
show ip sla responder [ __readonly__ <rttMonApplResponder> <gen-enabled> [ <ctrl-msg-count> ] [ <errors>
] [ <print-recent-hdr> ] [ { TABLE_recent [ <recent-addr> ] [ <recent-time> ] } ] [ <print-recent-err-hdr> ] [
{ TABLE_recent_error [ <recent-error> ] } ] <perm-enabled> [ { TABLE_permanent_udp [ <print-udp-hdr>
] [ <address> ] [ <port> ] } ] [ { TABLE_permanent_tcp [ <print-tcp-hdr> ] [ <address> ] [ <port> ] } ] ]
```

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
responder	IP SLAs Responder Information
<i>__readonly__</i>	(Optional)
<i>rttMonApplResponder</i>	(Optional) rttMonApplResponder
<i>gen-enabled</i>	(Optional)
<i>ctrl-msg-count</i>	(Optional)
<i>errors</i>	(Optional)
<i>print-recent-hdr</i>	(Optional)
TABLE_recent	(Optional) Show recent control message information
<i>recent-addr</i>	(Optional)
<i>recent-time</i>	(Optional)
<i>print-recent-err-hdr</i>	(Optional)
TABLE_recent_error	(Optional) Show recent control error information
<i>recent-error</i>	(Optional)
<i>perm-enabled</i>	(Optional)
TABLE_permanent_udp	(Optional) Show UDP permanent port/address information
<i>print-udp-hdr</i>	(Optional)
<i>address</i>	(Optional)
<i>port</i>	(Optional)
TABLE_permanent_tcp	(Optional) Show TCP permanent port/address information
<i>print-tcp-hdr</i>	(Optional)

<i>address</i>	(Optional)
<i>port</i>	(Optional)

**Command Mode**

- /exec

## show ip sla statistics

```
show ip sla statistics [ aggregated ] [ <entry-num> ] [ details ] [ __readonly__ <print_type> ] [ { TABLE_stats
[ <index> ] [ <top> ] [ { TABLE_detail [ <sti> ] [ <operation-type> ] [ <MINICPIF> ] [ <MAXICPIF> ] [
<MINMOS> ] [ <MAXMOS> ] [ <update-count> ] [ <micro-accuracy> ] [ <nano-accuracy> ] [ <latest-RTT>
] [ <latest-return-code> ] [ <latest-start-time> ] [ <http-dns-rtt> ] [ <http-tcp-rtt> ] [ <http-ttfb> ] [ <http-rtt>
] [ <http-status> ] [ <http-recvlen> ] [ <http-bodysize> ] [ <http-dns-timeout> ] [ <http-tcp-timeout> ] [
<http-t-timeout> ] [ <http-dns-error> ] [ <http-tcp-error> ] [ <http-t-error> ] [ <ntp-sync-state> ] [ <rtt-count>
] [ <rtt-min> ] [ <rtt-avg> ] [ <rtt-max> ] [ <lat-ow-samples> ] [ <sd-lat-ow-min> ] [ <sd-lat-ow-avg> ] [
<sd-lat-ow-max> ] [ <ds-lat-ow-min> ] [ <ds-lat-ow-avg> ] [ <ds-lat-ow-max> ] [ <sd-lat-sum> ] [
<sd-lat-sum2> ] [ <ds-lat-sum> ] [ <ds-lat-sum2> ] [ <sd-jitter-count> ] [ <ds-jitter-count> ] [ <sd-jitter-min>
] [ <sd-jitter-avg> ] [ <sd-jitter-max> ] [ <ds-jitter-min> ] [ <ds-jitter-avg> ] [ <ds-jitter-max> ] [
<sd-pos-jitter-min> ] [ <sd-pos-jitter-avg> ] [ <sd-pos-jitter-max> ] [ <sd-pos-jitter-num> ] [ <sd-pos-jitter-sum>
] [ <sd-pos-jitter-sum2> ] [ <sd-neg-jitter-min> ] [ <sd-neg-jitter-avg> ] [ <sd-neg-jitter-max> ] [
<sd-neg-jitter-num> ] [ <sd-neg-jitter-sum> ] [ <sd-neg-jitter-sum2> ] [ <ds-pos-jitter-min> ] [
<ds-pos-jitter-avg> ] [ <ds-pos-jitter-max> ] [ <ds-pos-jitter-num> ] [ <ds-pos-jitter-sum> ] [
<ds-pos-jitter-sum2> ] [ <ds-neg-jitter-min> ] [ <ds-neg-jitter-avg> ] [ <ds-neg-jitter-max> ] [
<ds-neg-jitter-num> ] [ <ds-neg-jitter-sum> ] [ <ds-neg-jitter-sum2> ] [ <pkt-unprocessed> ] [ <pkt-loss> ]
[ <pkt-loss-per> ] [ <pkt-loss-min> ] [ <pkt-loss-max> ] [ <pkt-loss-inter-min> ] [ <pkt-loss-inter-max> ] [
<inter-jitter-out> ] [ <inter-jitter-in> ] [ <jitter-avg> ] [ <pkt-loss-sd> ] [ <pkt-loss-sd-per> ] [ <pkt-loss-sd-min>
] [ <pkt-loss-sd-max> ] [ <pkt-loss-sd-inter-min> ] [ <pkt-loss-sd-inter-max> ] [ <pkt-loss-ds> ] [
<pkt-loss-ds-per> ] [ <pkt-loss-ds-min> ] [ <pkt-loss-ds-max> ] [ <pkt-loss-ds-inter-min> ] [
<pkt-loss-ds-inter-max> ] [ <pkt-oos> ] [ <pkt-oos-sd> ] [ <pkt-oos-ds> ] [ <pkt-oos-both> ] [ <pkt-mia> ] [
<pkt-late> ] [ <pkt-skipped> ] [ <voice-icpif> ] [ <voice-mos> ] [ <dnobs> ] [ <dmam> ] [ <dtoo> ] [ <dmin>
] [ <dmax> ] [ <pnobs> ] [ <pmam> ] [ <ptoo> ] [ <pmin> ] [ <pmax> ] [ <nnoobs> ] [ <nmam> ] [ <ntoo> ]
[ <nmin> ] [ <nmax> ] [ <outstring1> ] [ <outstring2> ] [ <nos> ] [ <nof> ] [ <noot> ] [ <nof1> ] [ <nof2>
] [ { TABLE_br [ <br> ] [ <avg-lat> ] [ <potc> ] [ <noc-by-lat> ] [ <sortthigh-by-low> ] [ <operot> } } } ]
[ <life-left> ] [ <oper-state> ] [ <reset-time> ] [ <nob> ] [ <bbh> ] [ <bbv> } } ] }
```

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
statistics	IP SLAs Statistics
<i>entry-num</i>	(Optional) Entry Number
details	(Optional) Detailed Output
aggregated	(Optional) IP SLAs Statistics Aggregated
<i>__readonly__</i>	(Optional)
<i>print_type</i>	(Optional)
TABLE_stats	(Optional) Show ip sla statistics information
<i>index</i>	(Optional)

<i>top</i>	(Optional)
TABLE_detail	(Optional) Show ip sla statistics detail information
<i>sti</i>	(Optional)
<i>operation-type</i>	(Optional)
<i>MINICPIF</i>	(Optional)
<i>MAXICPIF</i>	(Optional)
<i>MINMOS</i>	(Optional)
<i>MAXMOS</i>	(Optional)
<i>update-count</i>	(Optional)
<i>micro-accuracy</i>	(Optional)
<i>nano-accuracy</i>	(Optional)
<i>latest-RTT</i>	(Optional)
<i>latest-return-code</i>	(Optional)
<i>latest-start-time</i>	(Optional)
<i>http-dns-rtt</i>	(Optional)
<i>http-tcp-rtt</i>	(Optional)
<i>http-ttfb</i>	(Optional)
<i>http-rtt</i>	(Optional)
<i>http-status</i>	(Optional)
<i>http-recvlen</i>	(Optional)
<i>http-bodysize</i>	(Optional)
<i>http-dns-timeout</i>	(Optional)
<i>http-tcp-timeout</i>	(Optional)
<i>http-t-timeout</i>	(Optional)
<i>http-dns-error</i>	(Optional)
<i>http-tcp-error</i>	(Optional)
<i>http-t-error</i>	(Optional)
<i>ntp-sync-state</i>	(Optional)
<i>rtt-count</i>	(Optional)

<i>rtt-min</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>lat-ow-samples</i>	(Optional)
<i>sd-lat-ow-min</i>	(Optional)
<i>sd-lat-ow-avg</i>	(Optional)
<i>sd-lat-ow-max</i>	(Optional)
<i>ds-lat-ow-min</i>	(Optional)
<i>ds-lat-ow-avg</i>	(Optional)
<i>ds-lat-ow-max</i>	(Optional)
<i>sd-lat-sum</i>	(Optional)
<i>sd-lat-sum2</i>	(Optional)
<i>ds-lat-sum</i>	(Optional)
<i>ds-lat-sum2</i>	(Optional)
<i>sd-jitter-count</i>	(Optional)
<i>ds-jitter-count</i>	(Optional)
<i>sd-jitter-min</i>	(Optional)
<i>sd-jitter-avg</i>	(Optional)
<i>sd-jitter-max</i>	(Optional)
<i>ds-jitter-min</i>	(Optional)
<i>ds-jitter-avg</i>	(Optional)
<i>ds-jitter-max</i>	(Optional)
<i>sd-pos-jitter-min</i>	(Optional)
<i>sd-pos-jitter-avg</i>	(Optional)
<i>sd-pos-jitter-max</i>	(Optional)
<i>sd-pos-jitter-num</i>	(Optional)
<i>sd-pos-jitter-sum</i>	(Optional)
<i>sd-pos-jitter-sum2</i>	(Optional)
<i>sd-neg-jitter-min</i>	(Optional)



<i>sd-neg-jitter-avg</i>	(Optional)
<i>sd-neg-jitter-max</i>	(Optional)
<i>sd-neg-jitter-num</i>	(Optional)
<i>sd-neg-jitter-sum</i>	(Optional)
<i>sd-neg-jitter-sum2</i>	(Optional)
<i>ds-pos-jitter-min</i>	(Optional)
<i>ds-pos-jitter-avg</i>	(Optional)
<i>ds-pos-jitter-max</i>	(Optional)
<i>ds-pos-jitter-num</i>	(Optional)
<i>ds-pos-jitter-sum</i>	(Optional)
<i>ds-pos-jitter-sum2</i>	(Optional)
<i>ds-neg-jitter-min</i>	(Optional)
<i>ds-neg-jitter-avg</i>	(Optional)
<i>ds-neg-jitter-max</i>	(Optional)
<i>ds-neg-jitter-num</i>	(Optional)
<i>ds-neg-jitter-sum</i>	(Optional)
<i>ds-neg-jitter-sum2</i>	(Optional)
<i>pkt-unprocessed</i>	(Optional)
<i>pkt-loss</i>	(Optional)
<i>pkt-loss-per</i>	(Optional)
<i>pkt-loss-min</i>	(Optional)
<i>pkt-loss-max</i>	(Optional)
<i>pkt-loss-inter-min</i>	(Optional)
<i>pkt-loss-inter-max</i>	(Optional)
<i>inter-jitter-out</i>	(Optional)
<i>inter-jitter-in</i>	(Optional)
<i>jitter-avg</i>	(Optional)
<i>pkt-loss-sd</i>	(Optional)
<i>pkt-loss-sd-per</i>	(Optional)

<i>pkt-loss-sd-min</i>	(Optional)
<i>pkt-loss-sd-max</i>	(Optional)
<i>pkt-loss-sd-inter-min</i>	(Optional)
<i>pkt-loss-sd-inter-max</i>	(Optional)
<i>pkt-loss-ds</i>	(Optional)
<i>pkt-loss-ds-per</i>	(Optional)
<i>pkt-loss-ds-min</i>	(Optional)
<i>pkt-loss-ds-max</i>	(Optional)
<i>pkt-loss-ds-inter-min</i>	(Optional)
<i>pkt-loss-ds-inter-max</i>	(Optional)
<i>pkt-oos</i>	(Optional)
<i>pkt-oos-sd</i>	(Optional)
<i>pkt-oos-ds</i>	(Optional)
<i>pkt-oos-both</i>	(Optional)
<i>pkt-mia</i>	(Optional)
<i>pkt-late</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>voice-icpif</i>	(Optional)
<i>voice-mos</i>	(Optional)
<i>dnobs</i>	(Optional)
<i>dmam</i>	(Optional)
<i>dtoo</i>	(Optional)
<i>dmin</i>	(Optional)
<i>dmax</i>	(Optional)
<i>pnobs</i>	(Optional)
<i>pmam</i>	(Optional)
<i>ptoo</i>	(Optional)
<i>pmin</i>	(Optional)
<i>pmax</i>	(Optional)

<i>nnobs</i>	(Optional)
<i>nmam</i>	(Optional)
<i>ntoo</i>	(Optional)
<i>nmin</i>	(Optional)
<i>nmax</i>	(Optional)
<i>outstring1</i>	(Optional)
<i>outstring2</i>	(Optional)
<i>nos</i>	(Optional)
<i>nof</i>	(Optional)
<i>noot</i>	(Optional)
<i>nofo1</i>	(Optional)
<i>nofo2</i>	(Optional)
TABLE_br	(Optional) Bin range related info
<i>br</i>	(Optional)
<i>avg-lat</i>	(Optional)
<i>potc</i>	(Optional)
<i>noc-by-lat</i>	(Optional)
<i>sorthigh-by-low</i>	(Optional)
<i>operot</i>	(Optional)
<i>life-left</i>	(Optional)
<i>oper-state</i>	(Optional)
<i>reset-time</i>	(Optional)
<i>nob</i>	(Optional)
<i>bbh</i>	(Optional)
<i>bbv</i>	(Optional)

### Command Mode

- /exec

## show ip sla twamp connection detail

```
show ip sla twamp connection detail [ __readonly__ [ { TABLE_twamp-connection-detail <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> <Mode> <Connection-state> <Control-state>
<Number-Of-Test-requests> } ] ]
```

### Syntax Description

show	
ip	
sla	
twamp	
connection	
detail	
<i>__readonly__</i>	(Optional)
<i>TABLE_twamp-connection-detail</i>	(Optional) connection related info
<i>Connection-Id</i>	(Optional)
<i>Client-Addr</i>	(Optional)
<i>Client-Port</i>	(Optional)
<i>Client-VRF</i>	(Optional)
<i>Mode</i>	(Optional)
<i>Connection-state</i>	(Optional)
<i>Control-state</i>	(Optional)
<i>Number-Of-Test-requests</i>	(Optional)

### Command Mode

- /exec

# show ip sla twamp connection requests

```
show ip sla twamp connection requests [ __readonly__ [ { TABLE_twamp-connection-request <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> } ] [ <Total-Connections> ] ]
```

## Syntax Description

show	
ip	
sla	
twamp	
connection	
requests	
<i>__readonly__</i>	(Optional)
<i>TABLE_twamp-connection-request</i>	(Optional) connection requests related info
<i>Connection-Id</i>	(Optional)
<i>Client-Addr</i>	(Optional)
<i>Client-Port</i>	(Optional)
<i>Client-VRF</i>	(Optional)
<i>Total-Connections</i>	(Optional)

## Command Mode

- /exec

# show ip sla twamp session

```
show ip sla twamp session [ __readonly__ <twamp-resp-status> [ { TABLE_twamp-session [ <recv-addr> ]
[ <recv-port> ] [ <send-addr> ] [ <send-port> ] [ <send-vrf> ] [ <sess-id> ] [ <conn-id> ] } ] ]
```

## Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
twamp	IP SLAs Twamp Information
session	Display TWAMP Sessions
<i>__readonly__</i>	(Optional)
<i>twamp-resp-status</i>	(Optional)
TABLE_twamp-session	(Optional) session related information
<i>recv-addr</i>	(Optional)
<i>recv-port</i>	(Optional)
<i>send-addr</i>	(Optional)
<i>send-port</i>	(Optional)
<i>send-vrf</i>	(Optional)
<i>sess-id</i>	(Optional)
<i>conn-id</i>	(Optional)

## Command Mode

- /exec

# show ip sla twamp standards

```
show ip sla twamp standards [ __readonly__ [ { TABLE_twamp-standards <twamp-standard-feature>
<twamp-standard-org> <twamp-standard> } ] ]
```

## Syntax Description

show	
ip	
sla	
twamp	
standards	
<i>__readonly__</i>	(Optional)
TABLE_twamp-standards	(Optional) twamp standards for each supported feature
<i>twamp-standard-feature</i>	(Optional)
<i>twamp-standard-org</i>	(Optional)
<i>twamp-standard</i>	(Optional)

## Command Mode

- /exec

# show ip ssh source-interface

```
show ip ssh source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipsshvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipsshvrf	(Optional) source interface of ssh given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

## Command Mode

- /exec



# show ip ssh source-interface vrf all

```
show ip ssh source-interface vrf all [ __readonly__ [ { TABLE_ipssh <vrfname> <ifname> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipssh	(Optional) source interface of ssh
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

## Command Mode

- /exec

## show ip static-route

```
show ip static-route [ multicast ] [ internal ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ <count> <unres-count> ] [ TABLE_vrf_all { <cntxt_name> <cntxt_id> [ TABLE_each_vrf
{ <prefix_addr_msk> <nhop_addr_msk> <nhop_vrf_info> <nhop_intr_info> <urib_stat> [ <seg_id> ] [
<tunnel_id> <urib_encap_type> ] [ <nhop_urib_stat> ] [ <track_obj_num> <track_obj_state> ] } ] ] [
TABLE_multicast <multicast> ] [ TABLE_track-table ] [ TABLE_route <prefix> <masklen> <nhop>
<nhop-masklen> <intf> <real-nhop> <iod> <pref> <tag> <unres> ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
static-route	Display configured static routes
multicast	(Optional) Display only multicast routes
internal	(Optional) Display internal data structure info
track-table	(Optional) Display track object details associated with static routes
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf_all	(Optional)
<i>cntxt_name</i>	(Optional)
<i>cntxt_id</i>	(Optional)
TABLE_each_vrf	(Optional)
<i>prefix_addr_msk</i>	(Optional)
<i>nhop_addr_msk</i>	(Optional)
<i>nhop_vrf_info</i>	(Optional)
<i>nhop_intr_info</i>	(Optional)
<i>urib_stat</i>	(Optional)
<i>seg_id</i>	(Optional)
<i>tunnel_id</i>	(Optional)

<i>urib_encap_type</i>	(Optional)
<i>nhop_urib_stat</i>	(Optional)
<i>track_obj_num</i>	(Optional)
<i>track_obj_state</i>	(Optional)
TABLE_multicast	(Optional)
<i>multicast</i>	(Optional)
TABLE_track-table	(Optional)
TABLE_route	(Optional)
<i>prefix</i>	(Optional)
<i>masklen</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-masklen</i>	(Optional)
<i>intf</i>	(Optional)
<i>real-nhop</i>	(Optional)
<i>iod</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>unres</i>	(Optional)
<i>count</i>	(Optional)
<i>unres-count</i>	(Optional)

### Command Mode

- /exec

# show ip tcp mss

show ip tcp mss [ \_\_readonly\_\_ { <tcp-mss-value> } ]

## Syntax Description

show	Show running system information
ip	Configure IP features
tcp	Global TCP parameters
mss	Maximum segment size for TCP connections in bytes
__readonly__	(Optional)
<i>tcp-mss-value</i>	(Optional) TCP Maximum Segment Size Value

## Command Mode

- /exec

# show ip telnet source-interface

```
show ip telnet source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_ iptelnetvrf <vrfname> <ifname> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ iptelnetvrf	(Optional) source interface of telnet given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

## Command Mode

- /exec

## show ip telnet source-interface vrf all

```
show ip telnet source-interface vrf all [ __readonly__ [ { TABLE_ip telnet <vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ip telnet	(Optional) source interface of telnet
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec

# show ip tftp source-interface

```
show ip tftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrf	(Optional) source interface of tftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

## Command Mode

- /exec

## show ip tftp source-interface vrf all

```
show ip tftp source-interface vrf all [ __readonly__ [ { TABLE_iptftp <vrfname> <ifname> } ] ]
```

### Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptftp	(Optional) source interface of tftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

### Command Mode

- /exec



# show ip traceroute source-interface

```
show ip traceroute source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_iptraceroutevrf <vrfname> <ifname> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iptraceroutevrf	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

## Command Mode

- /exec

# show ip traceroute source-interface vrf all

```
show ip traceroute source-interface vrf all [ __readonly__ [ { TABLE_iptraceroute <vrfname> <ifname> } ] ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptraceroute	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

## Command Mode

- /exec

# show ip traffic

```
show ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_vrf [ <vrf-name-out>
] } ] [ { TABLE_ip_soft_processed_traffic [ { TABLE_trans_and_reception [ <rcvd> ] [ <sent> ] [ <consumed>
] [ <fwd-ucast> ] [ <fwd-mcast> ] [ <fwd-label> ] [ <ingress-mcecfwd> } ] } ] [ { TABLE_opts [ <opts-end>
] [ <opts-nop> ] [ <opts-bsec> ] [ <opts-loosesrc-route> ] [ <opts-timestamp> ] [ <opts-esec> ] [
<opts-record-route> ] [ <opts-stid> ] [ <opts-strsrc-route> ] [ <opts-alert> ] [ <opts-cipso> ] [ <opts-ump> ]
[ <opts-other> } ] } ] [ { TABLE_errors [ <bad-csum> ] [ <too-small> ] [ <bad-ver> ] [ <bad-hlen> ] [ <bad-len>
] [ <bad-dest> ] [ <bad-ttl> ] [ <cant-fwd> ] [ <out-drop> ] [ <bad-encap> ] [ <no-route> ] [ <no-proto> ] [
<bad-options> ] [ <vinci> ] [ <snoop> ] [ <svi> ] [ <restart-recovery> ] [ <mbuf-fail> ] [ <bad-context> ] [
<rpf-drops> ] [ <bad-gw-mac> ] [ <ing-ips-option-fail> ] [ <nat-in-drop> ] [ <nat-out-drop> ] [
<ing-option-proc-fail> ] [ <ing-mfwd-fail> ] [ <ing-lisp-drop> ] [ <ing-lisp-decap-drop> ] [
<ing-lisp-encap-drop> ] [ <ing-lisp-encap> ] [ <ing-mfwd-copy-drop> ] [ <ing-ra-reass-drop> ] [
<ing-icmp-redirect> ] [ <ing-drop-ifmgr-init> ] [ <ing-drop-invlld-filter> ] [ <ing-drop-invlld-l2-msg> ] [
<ingress> ] [ <egrees> ] [ <directed_bdcst> } ] } ] [ { TABLE_fragment [ <frag> ] [ <fragmented> ] [ <out-frag>
] [ <frag-drop> ] [ <cant-frag> ] [ <reams> ] [ <frag-to> } ] } ] [ { TABLE_icmp_software_proc_traffic [ {
TABLE_transmission [ <tx-redir> ] [ <tx-unreach> ] [ <tx-echo-req> ] [ <tx-echo-reply> ] [ <tx-mask-req>
] [ <tx-mask-rep> ] [ <tx-info-req> ] [ <tx-info-reply> ] [ <tx-param-prob> ] [ <tx-source-quench> ] [
<tx-tstamp-req> ] [ <tx-tstamp-reply> ] [ <tx-time-exceeded> ] [ <tx-router-solicit> ] [ <tx-router-advert> ]
[ <out-drop-badlen> ] [ <encap-fail> ] [ <xmit-fail> ] [ <icmp-originate> ] [ <redirect-originate-req> ] [
<originate-deny> ] [ <short-ip> ] [ <old-icmp> ] [ <error-drop> } ] } ] [ { TABLE_reception [ <rx-redir> ] [
<rx-unreach> ] [ <rx-echo-req> ] [ <rx-echo-reply> ] [ <rx-mask-req> ] [ <rx-mask-rep> ] [ <rx-info-req> ]
[ <rx-info-reply> ] [ <rx-param-prob> ] [ <rx-source-quench> ] [ <rx-tstamp-req> ] [ <rx-tstamp-reply> ] [
<rx-time-exceeded> ] [ <rx-router-solicit> ] [ <rx-router-advert> ] [ <rx-format-errors> ] [ <rx-csum-errors>
] [ <lisp-processed> ] [ <lisp-noclient> ] [ <lisp-consumed> ] [ <icmp-replies> ] [ <icmp-reply-drop> ] [
<icmp-inactive-addr> } ] } ] [ { TABLE_stat_last_never [ <stat-last-never> } ] } ] [ {
TABLE_rfc4293_ip_soft_proc_traffic [ { TABLE_rfc_reception [ <inrcv> ] [ <inocet> ] [ <inhdrerr> ] [
<innoroutes> ] [ <inadrerr> ] [ <innoproto> ] [ <intruncated> ] [ <inforw> ] [ <reamsreqds> ] [ <reamsmoks>
] [ <reamsfails> ] [ <indiscards> ] [ <indelivers> ] [ <inmcastpkts> ] [ <inmcastbytes> ] [ <inbastpkts> } ] } ]
[ { TABLE_rfc_transmission [ <out-req> ] [ <out-no-route> ] [ <out-forwdgrams> ] [ <out-discards> ] [
<out-frag-req> ] [ <out-frag-oks> ] [ <out-frag-fails> ] [ <out-frag-create> ] [ <out-transmits> ] [ <byte-sent>
] [ <out-mcast-pkts> ] [ <out-mcast-bytes> ] [ <out-bcast-pkts> ] [ <out-bcast-bytes> } ] } ] } ] }
```

## Syntax Description

show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)

TABLE_ip_soft_processed_traffic	(Optional)
TABLE_trans_and_reception	(Optional)
<i>rcvd</i>	(Optional)
<i>sent</i>	(Optional)
<i>consumed</i>	(Optional)
<i>fwd-ucast</i>	(Optional)
<i>fwd-mcast</i>	(Optional)
<i>fwd-label</i>	(Optional)
<i>ingress-mcecfwd</i>	(Optional)
TABLE_opts	(Optional)
<i>opts-end</i>	(Optional)
<i>opts-nop</i>	(Optional)
<i>opts-bsec</i>	(Optional)
<i>opts-loosesrc-route</i>	(Optional)
<i>opts-timestamp</i>	(Optional)
<i>opts-ese</i>	(Optional)
<i>opts-record-route</i>	(Optional)
<i>opts-ump</i>	(Optional)
<i>opts-stid</i>	(Optional)
<i>opts-strsrc-route</i>	(Optional)
<i>opts-alert</i>	(Optional)
<i>opts-cipso</i>	(Optional)
<i>opts-other</i>	(Optional)
TABLE_errors	(Optional)
<i>bad-csum</i>	(Optional)
<i>too-small</i>	(Optional)
<i>bad-ver</i>	(Optional)
<i>bad-hlen</i>	(Optional)
<i>bad-len</i>	(Optional)

<i>bad-dest</i>	(Optional)
<i>bad-ttl</i>	(Optional)
<i>cant-fwd</i>	(Optional)
<i>out-drop</i>	(Optional)
<i>bad-encap</i>	(Optional)
<i>no-route</i>	(Optional)
<i>no-proto</i>	(Optional)
<i>bad-options</i>	(Optional)
<i>vinci</i>	(Optional)
<i>snoop</i>	(Optional)
<i>svi</i>	(Optional)
<i>restart-recovery</i>	(Optional)
<i>mbuf-fail</i>	(Optional)
<i>bad-context</i>	(Optional)
<i>rpf-drops</i>	(Optional)
<i>bad-gw-mac</i>	(Optional)
<i>ing-ips-option-fail</i>	(Optional)
<i>nat-in-drop</i>	(Optional)
<i>nat-out-drop</i>	(Optional)
<i>ing-option-proc-fail</i>	(Optional)
<i>ing-mfrwd-fail</i>	(Optional)
<i>ing-lisp-drop</i>	(Optional)
<i>ing-lisp-decap-drop</i>	(Optional)
<i>ing-lisp-encap-drop</i>	(Optional)
<i>ing-lisp-encap</i>	(Optional)
<i>ing-mfwd-copy-drop</i>	(Optional)
<i>ing-ra-reass-drop</i>	(Optional)
<i>ing-icmp-redirect</i>	(Optional)
<i>ing-drop-ifmgr-init</i>	(Optional)

<i>ing-drop-invld-filter</i>	(Optional)
<i>ing-drop-invld-l2-msg</i>	(Optional)
<i>ingress</i>	(Optional)
<i>egrees</i>	(Optional)
<i>directed_bdcast</i>	(Optional)
TABLE_fragment	(Optional)
<i>frag</i>	(Optional)
<i>fragmented</i>	(Optional)
<i>out-frag</i>	(Optional)
<i>frag-drop</i>	(Optional)
<i>cant-frag</i>	(Optional)
<i>reasm</i>	(Optional)
<i>frag-to</i>	(Optional)
TABLE_icmp_software_proc_traffic	(Optional)
TABLE_transmission	(Optional)
<i>tx-redirect</i>	(Optional)
<i>tx-unreach</i>	(Optional)
<i>tx-echo-req</i>	(Optional)
<i>tx-echo-reply</i>	(Optional)
<i>tx-mask-req</i>	(Optional)
<i>tx-mask-rep</i>	(Optional)
<i>tx-info-req</i>	(Optional)
<i>tx-info-reply</i>	(Optional)
<i>tx-param-prob</i>	(Optional)
<i>tx-source-quench</i>	(Optional)
<i>tx-tstamp-req</i>	(Optional)
<i>tx-tstamp-reply</i>	(Optional)
<i>tx-time-exceeded</i>	(Optional)
<i>tx-router-solicit</i>	(Optional)

<i>tx-router-advert</i>	(Optional)
<i>out-drop-badlen</i>	(Optional)
<i>encap-fail</i>	(Optional)
<i>xmit-fail</i>	(Optional)
<i>icmp-originate</i>	(Optional)
<i>redirect-originate-req</i>	(Optional)
<i>originate-deny</i>	(Optional)
<i>short-ip</i>	(Optional)
<i>old-icmp</i>	(Optional)
<i>error-drop</i>	(Optional)
TABLE_reception	(Optional)
<i>rx-redir</i>	(Optional)
<i>rx-unreach</i>	(Optional)
<i>rx-echo-req</i>	(Optional)
<i>rx-echo-reply</i>	(Optional)
<i>rx-mask-req</i>	(Optional)
<i>rx-mask-rep</i>	(Optional)
<i>rx-info-req</i>	(Optional)
<i>rx-info-reply</i>	(Optional)
<i>rx-param-prob</i>	(Optional)
<i>rx-source-quench</i>	(Optional)
<i>rx-tstamp-req</i>	(Optional)
<i>rx-tstamp-reply</i>	(Optional)
<i>rx-time-exceeded</i>	(Optional)
<i>rx-router-solicit</i>	(Optional)
<i>rx-router-advert</i>	(Optional)
<i>rx-format-errors</i>	(Optional)
<i>rx-csum-errors</i>	(Optional)
<i>lisp-processed</i>	(Optional)

<i>lisp-noclient</i>	(Optional)
<i>lisp-consumed</i>	(Optional)
<i>icmp-replies</i>	(Optional)
<i>icmp-reply-drop</i>	(Optional)
<i>icmp-inactive-addr</i>	(Optional)
TABLE_stat_last_never	(Optional)
<i>stat-last-never</i>	(Optional)
TABLE_rfc4293_ip_soft_proc_traffic	(Optional)
TABLE_rfc_reception	(Optional)
<i>inrcv</i>	(Optional)
<i>inoctet</i>	(Optional)
<i>inhdrrr</i>	(Optional)
<i>innoroutes</i>	(Optional)
<i>inaddrerr</i>	(Optional)
<i>innoproto</i>	(Optional)
<i>intruncated</i>	(Optional)
<i>inforw</i>	(Optional)
<i>reasmreqds</i>	(Optional)
<i>reasmoks</i>	(Optional)
<i>reasmfails</i>	(Optional)
<i>indiscards</i>	(Optional)
<i>indelivers</i>	(Optional)
<i>inmcastpkts</i>	(Optional)
<i>inmcastbytes</i>	(Optional)
<i>inbaspkts</i>	(Optional)
TABLE_rfc_transmission	(Optional)
<i>out-req</i>	(Optional)
<i>out-no-route</i>	(Optional)
<i>out-forwdgrams</i>	(Optional)



<i>out-discards</i>	(Optional)
<i>out-frag-req</i>	(Optional)
<i>out-frag-oks</i>	(Optional)
<i>out-frag-fails</i>	(Optional)
<i>out-frag-create</i>	(Optional)
<i>out-transmits</i>	(Optional)
<i>byte-sent</i>	(Optional)
<i>out-mcast-pkts</i>	(Optional)
<i>out-mcast-bytes</i>	(Optional)
<i>out-bcast-pkts</i>	(Optional)
<i>out-bcast-bytes</i>	(Optional)

**Command Mode**

- /exec

## show ip udp relay

```
show ip udp relay [ __readonly__ <udp_relay_service_enable> <udp_relay_hdr> [ { TABLE_default_ports
<port_name> <udp_relay_port_enable> } ] <udp_ports_hdr> [ TABLE_ports <udp_port_num> ]
<udp_intf_hdr> [ TABLE_intf <udp_intf_idx> <udp_sub_bcast> <udp_objgrp> ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
<i>__readonly__</i>	(Optional) Read only
<i>udp_relay_service_enable</i>	(Optional)
<i>udp_relay_hdr</i>	(Optional)
TABLE_default_ports	(Optional)
<i>port_name</i>	(Optional) UDP Port Name
<i>udp_relay_port_enable</i>	(Optional)
<i>udp_ports_hdr</i>	(Optional)
TABLE_ports	(Optional)
<i>udp_port_num</i>	(Optional)
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces
<i>udp_sub_bcast</i>	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group

### Command Mode

- /exec

# show ip udp relay interface

```
show ip udp relay interface [ <intf_range> ] [ __readonly__ <udp_intf_hdr> [ TABLE_intf <udp_intf_idx>
<udp_sub_bcast> <udp_objgrp> ] ]
```

## Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
interface	Interface ID
<i>intf_range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces
<i>udp_sub_bcast</i>	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group

## Command Mode

- /exec

## show ip udp relay object-group

```
show ip udp relay object-group [ <obj-grp-name> ] [ __readonly__ [ TABLE_objgrp_list [ <udp_objgrp> ]
[ TABLE_objgrp [ <host_addr> ] [ <net_addr> <net_mask> ] [ <prefix_addr> <prefix_len> ] ] <udp_intf_hdr>
[ TABLE_intf <udp_intf_idx> ] ] ] ]
```

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
object-group	Object-group
<i>obj-grp-name</i>	(Optional) object-group name
<i>__readonly__</i>	(Optional) Read only
TABLE_objgrp_list	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group
TABLE_objgrp	(Optional)
<i>host_addr</i>	(Optional) Host Address
<i>net_addr</i>	(Optional) Network Address
<i>net_mask</i>	(Optional) Network Mask
<i>prefix_addr</i>	(Optional) Network Address
<i>prefix_len</i>	(Optional) IP Prefix Length
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces

### Command Mode

- /exec

# show ip verify source

```
show ip verify source [ interface <intf6> ] [ __readonly__ <verify_ipsg_exclude_vlans> [ <verify_hdr> ] [
<verify_intf_ipsg_val> | <verify_ipsg_enable_intfs> ] [ { TABLE_verify_entry <verify_intf>
<verify_intf_ipsg_val> [ { TABLE_verify_entry_intfs <verify_ipsg_enable_intfs> } ] <verify_filter_mode>
<verify_ip_addr> <verify_mac_addr> <verify_vlan> } ] ]
```

## Syntax Description

show	Show running system information
ip	Show the IP features of the system
verify	Verify IPSG information
source	IPSG source
interface	(Optional) Interface
<i>intf6</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>verify_ipsg_exclude_vlans</i>	(Optional)
<i>verify_hdr</i>	(Optional) IP source guard operational entries
<i>verify_intf_ipsg_val</i>	(Optional) IP source guard value (enabled or disable)
<i>verify_ipsg_enable_intfs</i>	(Optional) IP source guard enabled interfaces names
TABLE_verify_entry	(Optional)
<i>verify_filter_mode</i>	(Optional)
<i>verify_intf</i>	(Optional)
TABLE_verify_entry_intfs	(Optional)
<i>verify_ip_addr</i>	(Optional) verify ip address
<i>verify_mac_addr</i>	(Optional) verify mac address
<i>verify_vlan</i>	(Optional) vlan for interface

## Command Mode

- /exec



<i>global_punt_pkt_cnt</i>	(Optional) Global punt packet count
<i>global_punt_byte_cnt</i>	(Optional) Global punt byte count
<i>global_glean_pkt_cnt</i>	(Optional) Global glean packet count
<i>global_glean_byte_cnt</i>	(Optional) Global glean byte count
<i>glean_pkt_cnt</i>	(Optional) Glean packet count
<i>glean_byte_cnt</i>	(Optional) Glean byte count
<i>normal_pkt_cnt</i>	(Optional) Packet count
<i>normal_byte_cnt</i>	(Optional) Byte count
<i>last_updated</i>	(Optional) Lat updated
<i>count-static</i>	(Optional) Static count
<i>count-dynamic</i>	(Optional) Dynamic count
<i>count-others</i>	(Optional) Others count
<i>count-throttle</i>	(Optional) Throttled count
<i>count-total</i>	(Optional) Total count
TABLE_afi	(Optional) AFI table
<i>afi</i>	(Optional) AFI
<i>count</i>	(Optional) Count
TABLE_adj	(Optional) Adjacency table for IPV6
<i>intf-out</i>	(Optional) Interface
<i>phy-intf</i>	(Optional) Physical interface
<i>time-stamp</i>	(Optional) Age
<i>mac</i>	(Optional) MAC address
<i>pref</i>	(Optional) Preference
<i>owner</i>	(Optional) Owner
<i>pkt-count</i>	(Optional) Packet count
<i>byte-count</i>	(Optional) Byte count
<i>is-best</i>	(Optional) Best
<i>is-thrtld</i>	(Optional) Throttled

**Command Mode**

- /exec



## show ipv6 adjacency aggregate-prefix

```
show ipv6 adjacency aggregate-prefix [ [ vlan <vlan-id> ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] ] [ __readonly__ [ TABLE_vlan <vlan-id> { <ipv6-agg-prefix-vlan-count> | <ipv6-agg-prefix>
<ref-count> } ] <ipv6-agg-prefix-total-count> ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
aggregate-prefix	aggregate-prefix PT info
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Vlan
summary	(Optional) Show aggregate-prefix summary
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
__readonly__	(Optional)
<i>ipv6-agg-prefix-total-count</i>	(Optional) ipv6 aggregate-prefix total count
TABLE_vlan	(Optional) TABLR vlan
<i>vlan-id</i>	(Optional) vlan id
<i>ipv6-agg-prefix-vlan-count</i>	(Optional) show ipv6 aggregate-prefix summary
<i>ipv6-agg-prefix</i>	(Optional) Ipv6 aggregate prefix
<i>ref-count</i>	(Optional) reference-hop count

### Command Mode

- /exec

## show ipv6 adjacency subnet-prefix

```
show ipv6 adjacency subnet-prefix [ [ vlan <vlan-id> ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] ] [ __readonly__ [ TABLE_vlan <vlan-id> { <ipv6-subnet-prefix-vlan-count> | <ipv6-subnet-prefix>
<agg-len> <nh-count> } ] <ipv6-subnet-prefix-total-count> ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
subnet-prefix	subnet-prefix PT info
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Vlan
summary	(Optional) Show subnet-prefix summary
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
<i>__readonly__</i>	(Optional)
<i>ipv6-subnet-prefix-total-count</i>	(Optional) ipv6 subnet-prefix total count
TABLE_vlan	(Optional) TABLR vlan
<i>vlan-id</i>	(Optional) vlan id
<i>ipv6-subnet-prefix-vlan-count</i>	(Optional) show ipv6 subnet-prefix summary
<i>ipv6-subnet-prefix</i>	(Optional) Ipv6 subnet prefix
<i>agg-len</i>	(Optional) aggregate-length
<i>nh-count</i>	(Optional) next-hop count

### Command Mode

- /exec

# show ipv6 amt tunnel

```
show ipv6 amt tunnel [ <address6> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc6> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

## Syntax Description

show	Show running system information
amt	AMT show commands
ipv6	Display IPv6 information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc6</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)
<i>group</i>	(Optional)

<i>rexp</i>	(Optional)
-------------	------------

**Command Mode**

- /exec

# show ipv6 bgp

```
show ipv6 { bgp | mbgp } { route-map { <rmap-name> | <rmap-name> } | prefix-list { <prfxlist-name> |
<test_pol_name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list { <commlist-name> |
<test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } [ exact-match ] }
```

## Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
<i>commlist-name</i>	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
exact-match	(Optional) Exact match of the communities

## Command Mode

- /exec

# show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
<ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ]
```

## Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
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
longer-prefixes	(Optional) Display route and more specific routes

## Command Mode

- /exec

## show ipv6 bgp community

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
community { <regex-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv6	Display BGP information for IPv6 address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
community	Display routes matching the BGP communities
<i>regex-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

### Command Mode

- /exec

## show ipv6 bgp dampening

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
dampening { dampened-paths [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> ] | parameters |
flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

show	Show running system 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
dampening	Display dampening info
parameters	Display dampening parameters
dampened-paths	Display all dampened paths
history-paths	Display all history paths
flap-statistics	Display flap statistics for routes
ipv6	Display BGP information for IPv6 address family
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

### Command Mode

- /exec



## show ipv6 bgp extcommunity

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
extcommunity { <regexp-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

### Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
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
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regexp-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

### Command Mode

- /exec

## show ipv6 bgp flap-statistics

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
flap-statistics [ <ipv6-prefix> ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

show	Show running system 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
flap-statistics	Display route flap statistics
ipv6	Display BGP information for IPv6 address family

### Command Mode

- /exec

# show ipv6 bgp neighbors

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | paths | received-routes | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
neighbors	Display all configured BGP neighbors
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
ipv6	Display BGP information for IPv6 address family
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

## Command Mode

- /exec

## show ipv6 bgp nexthop-database

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

show	Show running system 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
nexthop-database	Display nexthop database
ipv6	Display BGP information for IPv6 address family

### Command Mode

- /exec

# show ipv6 bgp nexthop

```
show ipv6 { bgp | mbgp } nexthop <ipv6nexthop>
```

## Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
nexthop	Display routes matching the nexthop

## Command Mode

- /exec

## show ipv6 bgp received-paths

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
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
received-paths	Display paths stored for soft-reconfig
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

### Command Mode

- /exec

## show ipv6 bgp regexp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] regexp
<regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

show	Show running system 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
ipv6	Display BGP information for IPv6 address family
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths

### Command Mode

- /exec

# show ipv6 bgp summary

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

show	Show running system 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
ipv6	Display BGP information for IPv6 address family

## Command Mode

- /exec



# show ipv6 client

```
show ipv6 client [ <client-name> ] [ __readonly__ { TABLE_ipv6_client { <cli-name> <cli-stat> <cli-pid>
<cli-ext-pid> [ <protocol> ] <pib-index> <cli-uuid> <rou-vrf> <rou-flg> <ctrl-sap> <data-sap> <ipc-ctrl-mq>
<ipc-ctrl-fail> <ipc-data-mq> <ipc-data-fail> [ <if-ext-ind> ] [ <recv-fn> <recv-hex> ] } } ]
```

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
client	Display clients registered with the IPv6 process
<i>client-name</i>	(Optional) Display information for a single IPv6 client
<i>__readonly__</i>	(Optional)
TABLE_ipv6_client	(Optional) IPV6 client table
<i>cli-name</i>	(Optional) client name
<i>cli-stat</i>	(Optional) client state
<i>cli-pid</i>	(Optional) client pid
<i>cli-ext-pid</i>	(Optional) client ext-pid
<i>protocol</i>	(Optional) ipv6 client protocol
<i>pib-index</i>	(Optional) client pib-index
<i>cli-uuid</i>	(Optional) client uuid
<i>rou-vrf</i>	(Optional) client route vrf
<i>rou-flg</i>	(Optional) client route flag
<i>ctrl-sap</i>	(Optional) client control sap
<i>data-sap</i>	(Optional) client data sap
<i>ipc-ctrl-mq</i>	(Optional) client ipc control message queue
<i>ipc-ctrl-fail</i>	(Optional) client ipc control fail
<i>ipc-data-mq</i>	(Optional) client ipc data message queue
<i>ipc-data-fail</i>	(Optional) client ipc data fail
<i>if-ext-ind</i>	(Optional) client if ext indes
<i>recv-fn</i>	(Optional) client receive fn name
<i>recv-hex</i>	(Optional) receive-hexadecimal address

**Command Mode**

- /exec

## show ipv6 dhcp guard policy

```
show ipv6 dhcp guard policy [ <pname> ] [ __readonly__ { TABLE_dhcp_guard_policy <name> <role> [ <target> ] [ <max_pref> ] [ <min_pref> ] [ <match_src_list> ] [ <match_prefix_list> ] } ]
```

### Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>pname</i>	(Optional) Policy name for dhcp guard feature
<i>__readonly__</i>	(Optional)
TABLE_dhcp_guard_policy	(Optional) IPv6 DHCP guard policy
<i>name</i>	(Optional) Policy Name
<i>role</i>	(Optional) Role
<i>target</i>	(Optional) Target
<i>max_pref</i>	(Optional) Max preference
<i>min_pref</i>	(Optional) Min preference
<i>match_src_list</i>	(Optional) Source Address Match Access List
<i>match_prefix_list</i>	(Optional) Prefix List Match Prefix List

### Command Mode

- /exec

## show ipv6 dhcp relay

```
show ipv6 dhcp relay [ interface <intf-range> ] [ __readonly__ [ <relay_service_enable> [ <gbl_src_intf> ]
<relay_vpn_enable> <relay_cisco_option_enable> ] [ TABLE_intf <interface-name> [ <intf_src_intf> ]
<intf_header> [ TABLE_addr <relay_address> <dst_intf> <vrf_name> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
interface	(Optional) DHCPv6 relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional) is dhcpv6 relay service enabled
<i>gbl_src_intf</i>	(Optional) interface name
<i>relay_vpn_enable</i>	(Optional) is dhcpv6 relay insertion of vpn sub options enabled
<i>relay_cisco_option_enable</i>	(Optional) is dhcpv6 relay cisco option enabled
TABLE_intf	(Optional)
<i>interface-name</i>	(Optional) interface name
<i>intf_src_intf</i>	(Optional) interface name
<i>intf_header</i>	(Optional) interface header
TABLE_addr	(Optional)
<i>dst_intf</i>	(Optional) interface name
<i>vrf_name</i>	(Optional) VRF name

### Command Mode

- /exec

## show ipv6 dhcp relay statistics

```
show ipv6 dhcp relay statistics [ interface <intf> [ [ server-ip <ip-addr-val> [ use-vrf <vrf-name> ] ] interface
<dest-interface> ] ] [ server-ip <ip-addr-val> [ interface <dest-interface> ] [ use-vrf <vrf-name> ] ] ] [
__readonly__ [ <msg_stats_hdr> <msg_type_str> <rx_pkts> <tx_pkts> <drops> <msg_type_str_advertise>
<rx_pkts_advertise> <tx_pkts_advertise> <drops_advertise> <msg_type_str_request> <rx_pkts_request>
<tx_pkts_request> <drops_request> <msg_type_str_confirm> <rx_pkts_confirm> <tx_pkts_confirm>
<drops_confirm> <msg_type_str_renew> <rx_pkts_renew> <tx_pkts_renew> <drops_renew>
<msg_type_str_rebind> <rx_pkts_rebind> <tx_pkts_rebind> <drops_rebind> <msg_type_str_reply>
<rx_pkts_reply> <tx_pkts_reply> <drops_reply> <msg_type_str_release> <rx_pkts_release> <tx_pkts_release>
<drops_release> <msg_type_str_decline> <rx_pkts_decline> <tx_pkts_decline> <drops_decline>
<msg_type_str_reconfigure> <rx_pkts_reconfigure> <tx_pkts_reconfigure> <drops_reconfigure>
<msg_type_str_inforeq> <rx_pkts_inforeq> <tx_pkts_inforeq> <drops_inforeq> <msg_type_str_relay_fwd>
<rx_pkts_relay_fwd> <tx_pkts_relay_fwd> <drops_relay_fwd> <msg_type_str_relay_reply>
<rx_pkts_relay_reply> <tx_pkts_relay_reply> <drops_relay_reply> <msg_type_str_unknown>
<rx_pkts_unknown> <tx_pkts_unknown> <drops_unknown> <msg_type_str_total> <rx_pkts_total>
<tx_pkts_total> <drops_total> ] [ <server_stats_hdr> [ TABLE_server <server_helper_addr> <server_vrf>
<server_intf> <server_requests> <server_responses> ] ] [ <drop_hdr> <drop_relay_disable> <drop_max_hops>
<drop_validation_fails> <drop_unknown_op_intf> <drop_bad_context> <drop_opt_insert_fail>
<drop_server_direct_reply> <drop_no_ipv6_addr> <drop_intf_error> <drop_vpn_disabled>
<drop_ipv6_extn_hdrs_presence> <drop_mct_drop> ] ]
```

### Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show information about DHCPv6
relay	DHCPv6 Relay
statistics	Statistics related to DHCPv6
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the server address
<i>dest-interface</i>	(Optional) Destination interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional) dhcpv6 message statistics header
<i>msg_type_str</i>	(Optional) dhcpv6 message type

<i>rx_pkts</i>	(Optional) dhcpv6 received packets
<i>tx_pkts</i>	(Optional) dhcpv6 forwarded packets
<i>drops</i>	(Optional) dhcpv6 packet drops
<i>msg_type_str_advertise</i>	(Optional)
<i>rx_pkts_advertise</i>	(Optional)
<i>tx_pkts_advertise</i>	(Optional)
<i>drops_advertise</i>	(Optional)
<i>msg_type_str_request</i>	(Optional)
<i>rx_pkts_request</i>	(Optional)
<i>tx_pkts_request</i>	(Optional)
<i>drops_request</i>	(Optional)
<i>msg_type_str_confirm</i>	(Optional)
<i>rx_pkts_confirm</i>	(Optional)
<i>tx_pkts_confirm</i>	(Optional)
<i>drops_confirm</i>	(Optional)
<i>msg_type_str_renew</i>	(Optional)
<i>rx_pkts_renew</i>	(Optional)
<i>tx_pkts_renew</i>	(Optional)
<i>drops_renew</i>	(Optional)
<i>msg_type_str_rebind</i>	(Optional)
<i>rx_pkts_rebind</i>	(Optional)
<i>tx_pkts_rebind</i>	(Optional)
<i>drops_rebind</i>	(Optional)
<i>msg_type_str_reply</i>	(Optional)
<i>rx_pkts_reply</i>	(Optional)
<i>tx_pkts_reply</i>	(Optional)
<i>drops_reply</i>	(Optional)
<i>msg_type_str_release</i>	(Optional)
<i>rx_pkts_release</i>	(Optional)

<i>tx_pkts_release</i>	(Optional)
<i>drops_release</i>	(Optional)
<i>msg_type_str_decline</i>	(Optional)
<i>rx_pkts_decline</i>	(Optional)
<i>tx_pkts_decline</i>	(Optional)
<i>drops_decline</i>	(Optional)
<i>msg_type_str_reconfigure</i>	(Optional)
<i>rx_pkts_reconfigure</i>	(Optional)
<i>tx_pkts_reconfigure</i>	(Optional)
<i>drops_reconfigure</i>	(Optional)
<i>msg_type_str_inforeq</i>	(Optional)
<i>rx_pkts_inforeq</i>	(Optional)
<i>tx_pkts_inforeq</i>	(Optional)
<i>drops_inforeq</i>	(Optional)
<i>msg_type_str_relay_fwd</i>	(Optional)
<i>rx_pkts_relay_fwd</i>	(Optional)
<i>tx_pkts_relay_fwd</i>	(Optional)
<i>drops_relay_fwd</i>	(Optional)
<i>msg_type_str_relay_reply</i>	(Optional)
<i>rx_pkts_relay_reply</i>	(Optional)
<i>tx_pkts_relay_reply</i>	(Optional)
<i>drops_relay_reply</i>	(Optional)
<i>msg_type_str_unknown</i>	(Optional)
<i>rx_pkts_unknown</i>	(Optional)
<i>tx_pkts_unknown</i>	(Optional)
<i>drops_unknown</i>	(Optional)
<i>msg_type_str_total</i>	(Optional) total of all dhcpv6 message types
<i>rx_pkts_total</i>	(Optional)
<i>tx_pkts_total</i>	(Optional)

<i>drops_total</i>	(Optional)
<i>server_stats_hdr</i>	(Optional) per-server statistics header
TABLE_server	(Optional)
<i>server_vrf</i>	(Optional) dhcpv6 server vrf
<i>server_intf</i>	(Optional) interface name
<i>server_requests</i>	(Optional)
<i>server_responses</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_max_hops</i>	(Optional)
<i>drop_validation_fails</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_bad_context</i>	(Optional)
<i>drop_opt_insert_fail</i>	(Optional)
<i>drop_server_direct_reply</i>	(Optional)
<i>drop_no_ipv6_addr</i>	(Optional)
<i>drop_intf_error</i>	(Optional)
<i>drop_vpn_disabled</i>	(Optional)
<i>drop_ipv6_extn_hdrs_presence</i>	(Optional)
<i>drop_mct_drop</i>	(Optional) drops through mct

**Command Mode**

- /exec



# show ipv6 fragments

```
show ipv6 fragments [ <source-addr> ] [ __readonly__ [ TABLE_ipv6_frag [ TABLE_ipv6_each_q {
<ipv6-src> <ipv6-dest> <frag-id> <frag-off> <m-flag> <nxt-header> <pay-load> <expires> } ] ] ]
```

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
fragments	Display queued fragments
__readonly__	(Optional)
TABLE_ipv6_frag	(Optional) IPV6 fragment table
TABLE_ipv6_each_q	(Optional) IPV6 each fragment queue table
<i>frag-id</i>	(Optional) fragment id
<i>frag-off</i>	(Optional) fragment offset
<i>m-flag</i>	(Optional) m flag
<i>nxt-header</i>	(Optional) next header
<i>pay-load</i>	(Optional) fargment payload
<i>expires</i>	(Optional) expiry time

## Command Mode

- /exec

# show ipv6 icmp

```
show ipv6 icmp { adjacency | neighbor | sync-entries } [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { <icmpv6-vrftype> <icmpv6-cxt-name> } [ TABLE_icmpv6_all_int
{ TABLE_icmpv6_one_int { <icmpv6-ipv6-addr> <time-stamp-icmpv6> <icmpv6-mac> <icmpv6-state>
<icmpv6-short-name> [ <phy-int-short-name> ] } } ] ] ] ] ]
```

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
adjacency	Show IPv6 dynamic learnt adjacency entry
neighbor	Show IPv6 dynamic learnt neighbor entry
sync-entries	Show IPv6 table learnt only due to table sync
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>icmpv6-vrftype</i>	(Optional)
<i>icmpv6-cxt-name</i>	(Optional)
TABLE_icmpv6_all_int	(Optional)
TABLE_icmpv6_one_int	(Optional)
<i>time-stamp-icmpv6</i>	(Optional)
<i>icmpv6-mac</i>	(Optional)
<i>icmpv6-state</i>	(Optional)
<i>icmpv6-short-name</i>	(Optional)
<i>phy-int-short-name</i>	(Optional)

## Command Mode

- /exec

## show ipv6 icmp global traffic

```
show ipv6 { icmp | nd } global traffic [ __readonly__ [ { TABLE_icmpv6_global_stat [ <st-total> ] [ <rv-total> ] [ <st-err> ] [ <rv-err> ] [ <st-int-drp-cnt> ] [ <rv-int-drp-cnt> ] [ <st-adj-nt-recov-am-ha> ] [ <rv-adj-nt-recov-am-ha> ] [ <st-pkt-allow-inv-ttl-vpc> ] [ <rv-pkt-allow-inv-ttl-vpc> ] [ <st-drp-src-mac-own> ] [ <rv-drp-src-mac-own> ] [ <st-drp-tgt-ip-not-own> ] [ <rv-drp-tgt-ip-not-own> ] [ <st-drp-src-ip-not-own> ] [ <rv-drp-src-ip-not-own> ] [ <st-dest-unreach> ] [ <rv-dest-unreach> ] [ <st-admin-prohibit> ] [ <rv-admin-prohibit> ] [ <st-time-exceed> ] [ <rv-time-exceed> ] [ <st-para-pbms> ] [ <rv-para-pbms> ] [ <st-echo-req> ] [ <rv-echo-req> ] [ <st-echo-reply> ] [ <rv-echo-reply> ] [ <st-redirect> ] [ <rv-redirect> ] [ <st-pkt-too-big> ] [ <rv-pkt-too-big> ] [ <st-rtr-adver> ] [ <rv-rtr-adver> ] [ <st-rtr-solicit> ] [ <rv-rtr-solicit> ] [ <st-nei-adver> ] [ <rv-nei-adver> ] [ <st-nei-solicit> ] [ <rv-nei-solicit> ] [ <fast-path-pkts> ] [ <fastpath-disable> ] [ <ign-fastpath-pkts> ] [ <dup-rtr-ra-recvd> ] [ <rv-dup-rtr-ra-recvd> ] } ] ] [ { TABLE_icmpv6_mld_stat <st-v1-queries> <rv-v1-queries> <st-v2-queries> <rv-v2-queries> <st-v1-reports> <rv-v1-reports> <st-v2-reports> <rv-v2-reports> <st-v1-leaves> <rv-v1-leaves> } ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
global	Show ICMPv6/ND global variables
traffic	Display ICMPv6 software processed traffic statistics
__readonly__	(Optional)
TABLE_icmpv6_global_stat	(Optional) ICMPV6 global statistics
st-total	(Optional) total sent messages
rv-total	(Optional) total receive messages
st-err	(Optional) total sent error message
rv-err	(Optional) total receive error message
st-int-drp-cnt	(Optional) sent interface down drop count
rv-int-drp-cnt	(Optional) receive interface down drop count
st-adj-nt-recov-am-ha	(Optional) sent Adjacency not recovered from AM aft HA
rv-adj-nt-recov-am-ha	(Optional) receive Adjacency not recovered from AM aft HA
st-pkt-allow-inv-ttl-vpc	(Optional) sent Pkts allowed due to inv ttl on vPC-MCT
rv-pkt-allow-inv-ttl-vpc	(Optional) receive Pkts allowed due to inv ttl on vPC-MCT
st-drp-src-mac-own	(Optional) sent packet drop source mac address own

<i>rv-drp-src-mac-own</i>	(Optional) receive packet drop source mac address own
<i>st-drp-tgt-ip-not-own</i>	(Optional) sent drop tgt ip address not own
<i>rv-drp-tgt-ip-not-own</i>	(Optional) receive drop tgt ip address not own
<i>st-drp-src-ip-not-own</i>	(Optional) sent dropped source ip address
<i>rv-drp-src-ip-not-own</i>	(Optional) receive dropped source ip address
<i>st-dest-unreach</i>	(Optional) sent destination unreachable
<i>rv-dest-unreach</i>	(Optional) receive destination unreachable
<i>st-admin-prohibit</i>	(Optional) sent Administratively Prohibited
<i>rv-admin-prohibit</i>	(Optional) receive Administratively Prohibited
<i>st-time-exceed</i>	(Optional) sent time exceeded
<i>rv-time-exceed</i>	(Optional) receive time exceeded
<i>st-para-pbms</i>	(Optional) sent parameter problems
<i>rv-para-pbms</i>	(Optional) receive parameter problems
<i>st-echo-req</i>	(Optional) sent echo request
<i>rv-echo-req</i>	(Optional) receive echo request
<i>st-echo-reply</i>	(Optional) sent echo replies
<i>rv-echo-reply</i>	(Optional) receive echo replies
<i>st-redirect</i>	(Optional) sent redirects
<i>rv-redirect</i>	(Optional) receive redirects
<i>st-pkt-too-big</i>	(Optional) sent packet too big
<i>rv-pkt-too-big</i>	(Optional) receive packet too big
<i>st-rtr-adver</i>	(Optional) sent router advertisements
<i>rv-rtr-adver</i>	(Optional) receive router advertisements
<i>st-rtr-solicit</i>	(Optional) sent router solicitations
<i>rv-rtr-solicit</i>	(Optional) receive router solicitations
<i>st-nei-adver</i>	(Optional) sent neighbor advertisements
<i>rv-nei-adver</i>	(Optional) receive neighbor advertisements
<i>st-nei-solicit</i>	(Optional) sent neighbor solicitations
<i>rv-nei-solicit</i>	(Optional) receive neighbor solicitations

<i>fast-path-pkts</i>	(Optional) fastpath packets
<i>fastpath-disable</i>	(Optional) [fastpath disabled / others]
<i>ign-fastpath-pkts</i>	(Optional) Packets drop request ignore count
<i>dup-rtr-ra-recvd</i>	(Optional) Duplicate router RA sent
<i>rv-dup-rtr-ra-recvd</i>	(Optional) Duplicate router RA received
TABLE_icmpv6_mld_stat	(Optional) ICMPv6 MLD Statistics
<i>st-v1-queries</i>	(Optional) V1 Queries sent
<i>rv-v1-queries</i>	(Optional) V1 Queries received
<i>st-v2-queries</i>	(Optional) V2 Queries sent
<i>rv-v2-queries</i>	(Optional) V2 Queries received
<i>st-v1-reports</i>	(Optional) V1 Reports sent
<i>rv-v1-reports</i>	(Optional) V1 Reports received
<i>st-v2-reports</i>	(Optional) V2 Reports sent
<i>rv-v2-reports</i>	(Optional) V2 Reports received
<i>st-v1-leaves</i>	(Optional) V1 Leaves sent
<i>rv-v1-leaves</i>	(Optional) V1 Leaves received

**Command Mode**

- /exec

## show ipv6 icmp interface

```
{ show ipv6 { icmp | nd } interface [ <interface> ] { [ prefix [ full ] ] | [ route ] | [ detail ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface [ brief ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface <interface> } [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_intf <intf-name> <proto-state> <link-state> <admin-state> [ TABLE_addr <addr>
] <subnet> <link-local-addr> <icmpv6-disabled> <last-ns-sent> <last-na-sent> <last-ra-sent> <next-na-sent>
<ra-min-interval> <ra-interval> <set-m-flag> <set-o-flag> <current-hop-limit> <mtu> <router-lifetime>
<reachable-time> <retrans-timer> <ns-interval> <send-redirect> <send-unreachables> <mld-disabled>
<mld-querier> <mld-entry-count> <mld-config-version> <mld-querier-version> <mld-host-version>
<mld-query-timer> <mld-querier-expiry> <mld-qi> <mld-config-qi> <mld-query-mrt> <mld-config-query-mrt>
<mld-startup-qi> <mld-config-startup-qi> <mld-startup-qc> <mld-config-last-member-mrt>
<mld-last-member-qc> <mld-group-timeout> <mld-config-group-timeout> <mld-querier-timeout>
<mld-config-querier-timeout> <mld-config-unsol-rpt-interval> <mld-qrv> <mld-config-robustness-variable>
<mld-config-rpt-link-local> <mld-refcount> <static-group-map> <join-group-map> <ra-sent> <ra-rec>
<rs-sent> <rs-rec> <na-sent> <na-rec> <ns-sent> <ns-rec> <redirect-sent> <redirect-rec> <msg-sent>
<msg-rec> <errors-sent> <erros-rec> <ifdown-sent> <ifdown-rec> <am-ha-not-ready> <allow-mct-ttl>
<our-own-mac> <tgt-not-us> <dest-unreachs-sent> <dest-unreachs-rec> <admin-prohibs-sent>
<admin-prohibs-rec> <time-excds-sent> <time-excds-rec> <parm-problems-sent> <parm-problems-rec>
<echos-sent> <echos-rec> <echo-replies-sent> <echo-replies-rec> <pkt-toobigs-sent> <pkt-toobigs-rec>
<fastpath-pkt-recv> <fastpath-disable-pkt-recv> <fastpath-ignore-pkt-recv> <v1-queries-sent> <v1-queries-rec>
<v2-queries-sent> <v2-queries-rec> <v1-reports-sent> <v1-reports-rec> <v2-reports-sent> <v2-reports-rec>
<v1-leaves-sent> <v1-leaves-rec> <v2-leaves-sent> <v2-leaves-rec> <uptime> <mld-config-il> [
TABLE_one_int <grp-id> <protocol-one-int> <client-uuid> <client-state-act> <client-in-use> TABLE_vip_list
<virt-ipv6> <virt-mac> <context_name> <context_id> <last-solocit-st> <last-nei-ad-st> <last-rtr-adv-st>
<nxt-rtr-ad-st> ] <max-dad-attempts> <current-dad-attempts> [ TABLE_route <route> <preference> <lifetime>
<info-option> <reachability-verify-enabled> <adv-route-info> <route-zero-lifetime> ] [ TABLE_prefix
<prefix> <enabled> <vlaidlife-time> <preferredlife-time> <on-link> <off-link> <autonomous> ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
nd	ICMPv6 Neighbor Discovery commands
mld	Display Multicast Listener Discovery information
interface	Display ICMPv6 related interface information
prefix	(Optional) Display List of ICMPv6 RA prefix

route	(Optional) Display List of ICMPv6 RA routes
full	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail	(Optional) Display ICMPv6 related interface information in detail
brief	(Optional) Display ICMPv6 related interface information in brief
<i>interface</i>	(Optional) Interface name to show
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
TABLE_addr	(Optional)
<i>icmpv6-disabled</i>	(Optional)
<i>last-ns-sent</i>	(Optional)
<i>last-na-sent</i>	(Optional)
<i>last-ra-sent</i>	(Optional)
<i>next-na-sent</i>	(Optional)
<i>ra-min-interval</i>	(Optional)
<i>ra-interval</i>	(Optional)
<i>set-m-flag</i>	(Optional)
<i>set-o-flag</i>	(Optional)
<i>current-hop-limit</i>	(Optional)
<i>mtu</i>	(Optional)
<i>router-lifetime</i>	(Optional)
<i>reachable-time</i>	(Optional)
<i>retrans-timer</i>	(Optional)
<i>ns-interval</i>	(Optional)



<i>send-redirect</i>	(Optional)
<i>send-unreachables</i>	(Optional)
<i>mld-disabled</i>	(Optional)
<i>mld-entry-count</i>	(Optional)
<i>mld-config-version</i>	(Optional)
<i>mld-querier-version</i>	(Optional)
<i>mld-host-version</i>	(Optional)
<i>mld-query-timer</i>	(Optional)
<i>mld-querier-expiry</i>	(Optional)
<i>mld-qi</i>	(Optional)
<i>mld-config-qi</i>	(Optional)
<i>mld-query-mrt</i>	(Optional)
<i>mld-config-query-mrt</i>	(Optional)
<i>mld-startup-qi</i>	(Optional)
<i>mld-config-startup-qi</i>	(Optional)
<i>mld-startup-qc</i>	(Optional)
<i>mld-config-last-member-mrt</i>	(Optional)
<i>mld-last-member-qc</i>	(Optional)
<i>mld-group-timeout</i>	(Optional)
<i>mld-config-group-timeout</i>	(Optional)
<i>mld-querier-timeout</i>	(Optional)
<i>mld-config-querier-timeout</i>	(Optional)
<i>mld-config-unsol-rpt-interval</i>	(Optional)
<i>mld-qrv</i>	(Optional)
<i>mld-config-robustness-variable</i>	(Optional)
<i>mld-config-rpt-link-local</i>	(Optional)
<i>mld-refcount</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)

<i>ra-sent</i>	(Optional)
<i>ra-rec</i>	(Optional)
<i>rs-sent</i>	(Optional)
<i>rs-rec</i>	(Optional)
<i>na-sent</i>	(Optional)
<i>na-rec</i>	(Optional)
<i>ns-sent</i>	(Optional)
<i>ns-rec</i>	(Optional)
<i>redirect-sent</i>	(Optional)
<i>redirect-rec</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-rec</i>	(Optional)
<i>errors-sent</i>	(Optional)
<i>erros-rec</i>	(Optional)
<i>ifdown-sent</i>	(Optional)
<i>ifdown-rec</i>	(Optional)
<i>am-ha-not-ready</i>	(Optional)
<i>allow-mct-ttl</i>	(Optional)
<i>our-own-mac</i>	(Optional)
<i>tgt-not-us</i>	(Optional)
<i>dest-unreachs-sent</i>	(Optional)
<i>dest-unreachs-rec</i>	(Optional)
<i>admin-prohibs-sent</i>	(Optional)
<i>admin-prohibs-rec</i>	(Optional)
<i>time-excds-sent</i>	(Optional)
<i>time-excds-rec</i>	(Optional)
<i>parm-problems-sent</i>	(Optional)
<i>parm-problems-rec</i>	(Optional)
<i>echos-sent</i>	(Optional)

<i>echos-rec</i>	(Optional)
<i>echo-replies-sent</i>	(Optional)
<i>echo-replies-rec</i>	(Optional)
<i>pkt-toobigs-sent</i>	(Optional)
<i>pkt-toobigs-rec</i>	(Optional)
<i>fastpath-pkt-recv</i>	(Optional)
<i>fastpath-disable-pkt-recv</i>	(Optional)
<i>fastpath-ignore-pkt-recv</i>	(Optional)
<i>v1-queries-sent</i>	(Optional)
<i>v1-queries-rec</i>	(Optional)
<i>v2-queries-sent</i>	(Optional)
<i>v2-queries-rec</i>	(Optional)
<i>v1-reports-sent</i>	(Optional)
<i>v1-reports-rec</i>	(Optional)
<i>v2-reports-sent</i>	(Optional)
<i>v2-reports-rec</i>	(Optional)
<i>v1-leaves-sent</i>	(Optional)
<i>v1-leaves-rec</i>	(Optional)
<i>v2-leaves-sent</i>	(Optional)
<i>v2-leaves-rec</i>	(Optional)
<i>uptime</i>	(Optional)
<i>mld-config-il</i>	(Optional)
TABLE_one_int	(Optional)
<i>grp-id</i>	(Optional)
<i>protocol-one-int</i>	(Optional)
<i>client-uuid</i>	(Optional)
<i>client-state-act</i>	(Optional)
<i>client-in-use</i>	(Optional)
TABLE_vip_list	(Optional)

<i>virt-mac</i>	(Optional)
<i>context_name</i>	(Optional)
<i>context_id</i>	(Optional)
<i>last-solocit-st</i>	(Optional)
<i>last-nei-ad-st</i>	(Optional)
<i>last-rtr-adv-st</i>	(Optional)
<i>nxt-rtr-ad-st</i>	(Optional)
<i>max-dad-attempts</i>	(Optional)
<i>current-dad-attempts</i>	(Optional)
TABLE_route	(Optional)
<i>preference</i>	(Optional)
<i>lifetime</i>	(Optional)
<i>info-option</i>	(Optional)
<i>reachability-verify-enabled</i>	(Optional)
<i>adv-route-info</i>	(Optional)
<i>route-zero-lifetime</i>	(Optional)
TABLE_prefix	(Optional)
<i>enabled</i>	(Optional)
<i>vlaidlife-time</i>	(Optional)
<i>preferredlife-time</i>	(Optional)
<i>on-link</i>	(Optional)
<i>off-link</i>	(Optional)
<i>autonomous</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 icmp l2 statistics

```
show ipv6 { icmp | nd } l2 statistics [ interface <interface> ] [ __readonly__ [ TABLE_intf { <intf_name>
<l2_stats> } ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
interface	(Optional) Interface for which l2 stats to be shown
l2	Display ND info for layer-2 interface
statistics	Display ND statistics for layer 2 interface
<i>interface</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) Layer 2 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>l2_stats</i>	(Optional) layer 2 ND stats on given interface

### Command Mode

- /exec



## show ipv6 icmp off-list

```
show ipv6 icmp off-list [ vlan <vlan-id> ] [ __readonly__ [ <vlan-adj-cnt> ] [ <icmpv6-sync-adj-cnt> ] {
TABLE_icmpv6_vlan_list <adj-vlan-id> <off-adj-ip-addr> <icmpv6-time-stamp> <icmpv6-mac-addr>
<off-adj-flags> } ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
off-list	Show adjacencies in off-list icmpv6 database
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>vlan-adj-cnt</i>	(Optional) vlan adjacency count
<i>icmpv6-sync-adj-cnt</i>	(Optional) icmpv6 sync adjacency count
TABLE_icmpv6_vlan_list	(Optional) icmpv6 vlan list table
<i>adj-vlan-id</i>	(Optional) adjacency vlan id
<i>icmpv6-time-stamp</i>	(Optional) icmpv6 time stamp
<i>icmpv6-mac-addr</i>	(Optional) icmpv6 mac address
<i>off-adj-flags</i>	(Optional) offlist adjacency flags

### Command Mode

- /exec

## show ipv6 icmp vaddr

```
show ipv6 icmp vaddr { link-local [ detail ] | global | pt-tree } [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ [ TABLE_pt_tree { <v-ipv6-addr> <v-mac-addr> <v-interface> <v-client-state> } ] [
TABLE_vrf_all [ TABLE_glo_vrf { <group-id> <protocol-vrf> <cli-uuid> <vaddr-action> <vrf-interface>
<v-ipv6-addr-one> <vaddr-mac> <cxt-name> <cxt-id> } ] [ TABLE_one_int [ <lcache-inter> <cxt-name-int>
<cxt_id-int> ] TABLE_one_group { <grp-id> <protocol-one-int> <client-uuid> <client-state-act>
<client-in-use> <client-state> TABLE_vip_list { <virt-ipv6> <virt-mac> <cxt_name> <cxt_id> [
<last-solicit-st> <last-nei-ad-st> <last-rtr-adv-st> <nxt-rtr-ad-st> <icmpv6-addr> <vmac-addr> <st-total>
<rv-total> <st-err> <rv-err> <st-int-dwn-drp> <rv-int-dwn-drp> <st-adj-nt-recov-am> <rv-adj-nt-recov-am>
<st-pkt-allow-inv-ttl> <rv-pkt-allow-inv-ttl> <st-pkt-drp-src-mac-own> <rv-pkt-drp-src-mac-own>
<st-pkt-drp-tgt-not-own> <rv-pkt-drp-tgt-not-own> <st-pkt-drp-src-not-own> <rv-pkt-drp-src-not-own>
<st-dest-unreach> <rv-dest-unreach> <st-admin-prohi> <rv-admin-prohi> <st-time-exceed> <rv-time-exceed>
<st-patr-pbm> <rv-patr-pbm> <st-echo-req> <rv-echo-req> <st-echo-reply> <rv-echo-reply> <st-dup-ra>
<rv-dup-ra> <st-redirect> <rv-redirect> <st-pkt-too-big> <rv-pkt-too-big> <st-rtr-adver> <rv-rtr-adver>
<st-rtr-solicit> <rv-rtr-solicit> <st-nei-adver> <rv-nei-adver> <st-nei-solicit> <rv-nei-solicit> } } ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vaddr	Show all virtual addresses configured
link-local	Display link-local virtual ipv6 addresses
detail	(Optional) Display detailed information
global	Display global virtual ipv6 addresses
pt-tree	Display link-local virtual ipv6 addresses pt-tree information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_pt_tree	(Optional)
<i>v-mac-addr</i>	(Optional)
<i>v-interface</i>	(Optional)
<i>v-client-state</i>	(Optional)
TABLE_vrf_all	(Optional)



TABLE_glo_vrf	(Optional)
<i>group-id</i>	(Optional)
<i>protocol-vrf</i>	(Optional)
<i>cli-uuid</i>	(Optional)
<i>vaddr-action</i>	(Optional)
<i>vrf-interface</i>	(Optional)
<i>vaddr-mac</i>	(Optional)
<i>cxt-name</i>	(Optional)
<i>cxt-id</i>	(Optional)
TABLE_one_int	(Optional)
<i>lcache-inter</i>	(Optional)
<i>cxt-name-int</i>	(Optional)
<i>cxt_id-int</i>	(Optional)
<i>grp-id</i>	(Optional)
<i>protocol-one-int</i>	(Optional)
<i>client-uuid</i>	(Optional)
<i>client-state-act</i>	(Optional)
<i>client-in-use</i>	(Optional)
<i>client-state</i>	(Optional)
TABLE_one_group	(Optional)
TABLE_vip_list	(Optional)
<i>virt-mac</i>	(Optional)
<i>cxt_name</i>	(Optional)
<i>cxt_id</i>	(Optional)
<i>last-solocit-st</i>	(Optional)
<i>last-nei-ad-st</i>	(Optional)
<i>last-rtr-adv-st</i>	(Optional)
<i>nxt-rtr-ad-st</i>	(Optional)
<i>vmac-addr</i>	(Optional)

<i>st-total</i>	(Optional)
<i>rv-total</i>	(Optional)
<i>st-err</i>	(Optional)
<i>rv-err</i>	(Optional)
<i>st-int-dwn-drp</i>	(Optional)
<i>rv-int-dwn-drp</i>	(Optional)
<i>st-adj-nt-recov-am</i>	(Optional)
<i>rv-adj-nt-recov-am</i>	(Optional)
<i>st-pkt-allow-inv-ttl</i>	(Optional)
<i>rv-pkt-allow-inv-ttl</i>	(Optional)
<i>st-pkt-drp-src-mac-own</i>	(Optional)
<i>rv-pkt-drp-src-mac-own</i>	(Optional)
<i>st-pkt-drp-tgt-not-own</i>	(Optional)
<i>rv-pkt-drp-tgt-not-own</i>	(Optional)
<i>st-pkt-drp-src-not-own</i>	(Optional)
<i>rv-pkt-drp-src-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohi</i>	(Optional)
<i>rv-admin-prohi</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-patr-pbm</i>	(Optional)
<i>rv-patr-pbm</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-dup-ra</i>	(Optional)

<i>rv-dup-ra</i>	(Optional)
<i>st-redirect</i>	(Optional)
<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 icmp vpc-statistics

```
show ipv6 icmp vpc-statistics [ __readonly__ [ { TABLE_icmpv6_vpc_stats [ <icmpv6-pro-drp-pull-disable>
] [ <icmpv6-pro-drp-push-msg-disable> ] [ <icmpv6-pro-ign-snd-pull-disabe> ] [
<icmpv6-ign-snd-push-disable> ] [ <icmpv6-drp-im-fail> ] [ <icmpv6-drp-mcecm-fail> ] [
<icmpv6-drp-invalid-pc-iod> ] [ <icmpv6-drp-pt-lookup-fail> ] [ <icmpv6-drp-resp-fail-no-mct> ] [
<icmpv6-drp-resp-fail> ] [ <icmpv6-vpc-id-ifindx-sending-pushmsg> ] [ <icmpv6-vpc-id-proc-cfs-payload>
] [ <icmpv6-resp-sent> ] [ <icmpv6-resp-recvd> ] [ <icmpv6-resp-recv-err> ] [ <icmpv6-rcvd-msg> ] [
<icmpv6-send-fail> ] [ <icmpv6-cfs-rel-dlvry-fail> ] [ <icmpv6-cfs-rel-dnvry-suc> ] [ <icmpv6-drp-pt-add-fail>
] [ <icmpv6-drp-no-mem> ] [ <icmpv6-drp-tmr-cre-fail> ] [ <icmpv6-drp-add-adj-fail> ] [
<icmpv6-off-drp-pt-lookup-fail> ] [ <icmpv6-dont-drp-vlan-mismat> ] [ <icmpv6-drp-svi-invalid> ] [
<icmpv6-dont-drop-sv-down> ] [ <icmpv6-drp-mct-down> ] [ <icmpv6-drp-ctxt-invalid> ] [
<icmpv6-drp-vrf-invalid> ] [ <icmpv6-drp-l3addr-invalid> ] [ <icmpv6-drp-l3addr-sanity-fail> ] [
<icmpv6-drp-mac-sanity-fail> ] [ <icmpv6-own-rtr-mac> ] [ <icmpv6-drp-own-ipv6addr> ] [
<icmpv6-drp-own-vipv6add> ] [ <icmpv6-drp-adj-fail> ] [ <icmpv6-drp-subnet-mismatch> ] [
<icmpv6-drp-adj-exist> ] [ <icmpv6-dont-drp-ip-not-enable> ] [ <icmpv6-drp-total-cnt> ] [
<icmpv6-dont-drop-total-cnt> ] [ <icmpv6-add-adj> ] [ <icmpv6-del-adj> ] [ <icmpv6-adj-already-exist> ] [
<icmpv6-vpc-id-periodic-sync> ] [ <icmpv6-vpc-id-cfs-payload-periodic-sync> ] } ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_icmpv6_vpc_stats	(Optional) icmpv6 Vpc statistics
<i>icmpv6-pro-drp-pull-disable</i>	(Optional) icmpv6 protocol drop pull disable
<i>icmpv6-pro-drp-push-msg-disable</i>	(Optional) icmpv6 protocol drop push message disable
<i>icmpv6-pro-ign-snd-pull-disabe</i>	(Optional) icmpv6 protocol ignore send pull disable
<i>icmpv6-ign-snd-push-disable</i>	(Optional) icmpv6 ignore send push disable
<i>icmpv6-drp-im-fail</i>	(Optional) icmpv6 drop im fail
<i>icmpv6-drp-mcecm-fail</i>	(Optional) MCECM api failed while processing CFS payload
<i>icmpv6-drp-invalid-pc-iod</i>	(Optional) Invalid MCT port-channel iod while processing CFS payload
<i>icmpv6-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing CFS payload
<i>icmpv6-drp-resp-fail-no-mct</i>	(Optional) invalid MCT iod while processing CFS payload
<i>icmpv6-drp-resp-fail</i>	(Optional) response failed while processing CFS payload
<i>icmpv6-vpc-id-ifindx-sending-pushmsg</i>	(Optional) Unable to retrieve VPC id ifindex while sending push message

<i>icmpv6-vpc-id-proc-cfs-payload</i>	(Optional) Unable to retrieve ifindex from vpc id
<i>icmpv6-vpc-id-periodic-sync</i>	(Optional) unable to retrieve vpc id ifindex for periodic sync
<i>icmpv6-vpc-id-cfs-payload-periodic-sync</i>	(Optional) unable to retrieve ifindex from vpc id while processing cfs payload for periodic sync
<i>icmpv6-resp-sent</i>	(Optional) Response sent via CFSOE
<i>icmpv6-resp-rcvd</i>	(Optional) Response received via CFSOE
<i>icmpv6-resp-rcv-err</i>	(Optional) Response received via CFSOE with errors
<i>icmpv6-rcvd-msg</i>	(Optional) Received message via CFSOE
<i>icmpv6-send-fail</i>	(Optional) Send message failed via CFSOE
<i>icmpv6-cfs-rel-dlvry-fail</i>	(Optional) MCECM send api failed via CFSOE
<i>icmpv6-cfs-rel-dmrvy-suc</i>	(Optional) Send message succeeded via CFSOE
<i>icmpv6-drp-pt-add-fail</i>	(Optional) PT add failed while processing offlist database
<i>icmpv6-drp-no-mem</i>	(Optional) Memory alloc failed while processing offlist database
<i>icmpv6-drp-tmr-cre-fail</i>	(Optional) Timer create failed while processing offlist database
<i>icmpv6-drp-add-adj-fail</i>	(Optional) Adjacency addition failed while processing offlist database
<i>icmpv6-off-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing offlist database
<i>icmpv6-dont-drp-vlan-mismat</i>	(Optional) VLAN mismatch while processing offlist database
<i>icmpv6-drp-svi-invalid</i>	(Optional) SVI is invalid while processing offlist database
<i>icmpv6-dont-drop-sv-down</i>	(Optional) SVI is down while processing offlist database
<i>icmpv6-drp-mct-down</i>	(Optional) MCT is down while processing offlist database
<i>icmpv6-drp-ctxt-invalid</i>	(Optional) Ctxt_type is invalid while processing offlist database
<i>icmpv6-drp-vrf-invalid</i>	(Optional) VRF is invalid while processing offlist database
<i>icmpv6-drp-l3addr-invalid</i>	(Optional) IP address is invalid while processing offlist database
<i>icmpv6-drp-l3addr-sanity-fail</i>	(Optional) IP address sanity failed while processing offlist database
<i>icmpv6-drp-mac-sanity-fail</i>	(Optional) MAC address sanity failed while processing offlist database
<i>icmpv6-own-rtr-mac</i>	(Optional) Our own router mac while processing offlist database
<i>icmpv6-drp-own-ipv6addr</i>	(Optional) Our own ip address while processing offlist database
<i>icmpv6-drp-own-vipv6add</i>	(Optional) Our own virtual ip address while processing offlist database
<i>icmpv6-drp-adj-fail</i>	(Optional) Create adjacency failed while processing offlist database

<i>icmpv6-drp-subnet-mismatch</i>	(Optional) Subnet mismatch while processing offlist database
<i>icmpv6-drp-adj-exist</i>	(Optional) Entry exists while processing offlist database
<i>icmpv6-dont-drp-ip-not-enable</i>	(Optional) IPv6 not enabled on interface while processing offlist database
<i>icmpv6-drp-total-cnt</i>	(Optional) Total drop count while processing offlist database
<i>icmpv6-dont-drop-total-cnt</i>	(Optional) Total don't drop count while processing offlist database
<i>icmpv6-add-adj</i>	(Optional) Total adjacency additions in offlist database
<i>icmpv6-del-adj</i>	(Optional) Total adjacency deletions in offlist database
<i>icmpv6-adj-already-exist</i>	(Optional) Total adjacencies ignored as they already exists in offlist database

**Command Mode**

- /exec

## show ipv6 interface

```
show ipv6 interface { [ brief [ include-secondary ] | [ <interface> | <ipv6-addr> ] [ detail ] ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ TABLE_intf <vrf-name-out> <intf-name> [ <proto-state> ] [
<link-state> ] [ <admin-state> ] [ <iod> ] [ TABLE_addr <addr> ] [ <prefix> ] [ { TABLE_sec_addr [
<sec-prefix> ] } ] [ <linklocal-addr> ] [ <linklocal-configured> ] [ { TABLE_vaddr [ <v-addr> ] } ] [
<ipv6-disabled> ] [ <mrouting-enabled> ] [ <mgroup-locally-joined> ] [ { TABLE_maddr <m-addr> [
<m-addr-refcnt> ] } ] [ { TABLE_sg [ <sg-saddr> ] [ <sg-maddr> ] [ <sg-refcnt> ] } ] [ <mtu> ] [
<global-in-pcl-configured> ] [ <global-in-pcl-name> ] [ <global-in-pcl-pending> ] [ <global-out-pcl-configured>
] [ <global-out-pcl-name> ] [ <global-out-pcl-pending> ] [ <in-pcl-configured> ] [ <in-pcl-name> ] [
<in-pcl-pending> ] [ <out-pcl-configured> ] [ <out-pcl-name> ] [ <out-pcl-pending> ] [ <urpf-mode> ] [
<ipv6-lstype> ] [ <stats-last-reset> ] [ <acl-in> ] [ <acl-out> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed>
] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed>
] [ <mbyte-fwd> ] [ <mbyte-orig> ] [ <mbyte-consumed> ] [ <upkt-in-acc> ] [ <upkt-in-rej> ] [ <ubyte-in-acc>
] [ <ubyte-in-rej> ] [ <mpkt-in-acc> ] [ <mpkt-in-rej> ] [ <mbyte-in-acc> ] [ <mbyte-in-rej> ] [ <upkt-out-acc>
] [ <upkt-out-rej> ] [ <ubyte-out-acc> ] [ <ubyte-out-rej> ] [ <mpkt-out-acc> ] [ <mpkt-out-rej> ] [
<mbyte-out-acc> ] [ <mbyte-out-rej> ] [ <hw-upkt-sent> ] [ <hw-upkt-recv> ] [ <hw-ubyte-sent> ] [
<hw-ubyte-recv> ] [ <hw-mpkt-sent> ] [ <hw-mpkt-recv> ] [ <hw-mbyte-sent> ] [ <hw-mbyte-recv> ] [
<hw-upkt-drop> ] [ <hw-ubyte-drop> ] [ <hw-mpkt-drop> ] [ <hw-mbyte-drop> ] [ <hw-mpkt-rpdrop> ] [
<hw-mbyte-rpdrop> ] [ <hw-mpkt-dfdrop> ] [ <hw-mbyte-dfdrop> ] [ <unspecified-src> ] [
<total-pkt-recv-tent-addr> ] [ <total-pkts-recv-invalid-addr-state> ] [ <total-pkt-recv-dup-state> ] [
<anycast-pkt-arrived-tcp> ] [ <deliver-intf-down> ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
brief	(Optional) Display summary of IPv6 status and configuration
include-secondary	(Optional) Display summary of all IPv6 addresses
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed IPv6 interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
__readonly__	(Optional)
TABLE_addr	(Optional)
<i>vrf-name-out</i>	(Optional)

TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>iod</i>	(Optional)
<i>addr</i>	(Optional)
<i>prefix</i>	(Optional)
TABLE_sec_addr	(Optional)
<i>sec-prefix</i>	(Optional)
<i>linklocal-configured</i>	(Optional)
TABLE_vaddr	(Optional)
<i>ipv6-disabled</i>	(Optional)
<i>mrouting-enabled</i>	(Optional)
<i>mgroup-locally-joined</i>	(Optional)
TABLE_maddr	(Optional)
<i>m-addr-refcnt</i>	(Optional)
TABLE_sg	(Optional)
<i>sg-refcnt</i>	(Optional)
<i>mtu</i>	(Optional)
<i>global-in-pcl-configured</i>	(Optional)
<i>global-in-pcl-name</i>	(Optional)
<i>global-in-pcl-pending</i>	(Optional)
<i>global-out-pcl-configured</i>	(Optional)
<i>global-out-pcl-name</i>	(Optional)
<i>global-out-pcl-pending</i>	(Optional)
<i>in-pcl-configured</i>	(Optional)
<i>in-pcl-name</i>	(Optional)
<i>in-pcl-pending</i>	(Optional)



<i>out-pcl-configured</i>	(Optional)
<i>out-pcl-name</i>	(Optional)
<i>out-pcl-pending</i>	(Optional)
<i>urpf-mode</i>	(Optional)
<i>ipv6-lstype</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>upkt-in-acc</i>	(Optional)
<i>upkt-in-rej</i>	(Optional)
<i>ubyte-in-acc</i>	(Optional)
<i>ubyte-in-rej</i>	(Optional)
<i>mpkt-in-acc</i>	(Optional)
<i>mpkt-in-rej</i>	(Optional)
<i>mbyte-in-acc</i>	(Optional)
<i>mbyte-in-rej</i>	(Optional)
<i>upkt-out-acc</i>	(Optional)

<i>upkt-out-rej</i>	(Optional)
<i>ubyte-out-acc</i>	(Optional)
<i>ubyte-out-rej</i>	(Optional)
<i>mpkt-out-acc</i>	(Optional)
<i>mpkt-out-rej</i>	(Optional)
<i>mbyte-out-acc</i>	(Optional)
<i>mbyte-out-rej</i>	(Optional)
<i>hw-upkt-sent</i>	(Optional)
<i>hw-upkt-recv</i>	(Optional)
<i>hw-ubyte-sent</i>	(Optional)
<i>hw-ubyte-recv</i>	(Optional)
<i>hw-mpkt-sent</i>	(Optional)
<i>hw-mpkt-recv</i>	(Optional)
<i>hw-mbyte-sent</i>	(Optional)
<i>hw-mbyte-recv</i>	(Optional)
<i>hw-upkt-drop</i>	(Optional)
<i>hw-ubyte-drop</i>	(Optional)
<i>hw-mpkt-drop</i>	(Optional)
<i>hw-mbyte-drop</i>	(Optional)
<i>hw-mpkt-rpdrop</i>	(Optional)
<i>hw-mbyte-rpdrop</i>	(Optional)
<i>hw-mpkt-dfdrop</i>	(Optional)
<i>hw-mbyte-dfdrop</i>	(Optional)
<i>unspecified-src</i>	(Optional)
<i>total-pkt-recv-tent-addr</i>	(Optional)
<i>total-pkts-recv-invalid-addr-state</i>	(Optional)
<i>total-pkt-recv-dup-state</i>	(Optional)
<i>anycast-pkt-arrived-tcp</i>	(Optional)
<i>deliver-intf-down</i>	(Optional)

### Command Mode

- /exec

# show ipv6 lisp data-cache

```
show ipv6 lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IPv6 destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show ipv6 local policy

```
show ipv6 local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [
<interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local	IPv6 local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

## Command Mode

- /exec

## show ipv6 mld groups

```
show ipv6 [ icmp ] mld groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <entry-count>
TABLE_group <group-out> TABLE_intf <intf-name> <icmpv6-disabled> <mld-source> <mld-group>
<mld-source-unspec> <mld-static> <mld-local-group> <mld-translated> <mld-uptime> <mld-expire> ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
groups	Display MLD attached group membership information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on interface name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) vrf table
<i>vrf-name-out</i>	(Optional) vrf name
<i>entry-count</i>	(Optional) entry count
TABLE_group	(Optional) group table
TABLE_intf	(Optional) interface table
<i>intf-name</i>	(Optional) interface name
<i>icmpv6-disabled</i>	(Optional) icmpv6 disabled
<i>mld-source-unspec</i>	(Optional) mld source unspecified
<i>mld-static</i>	(Optional) mld static
<i>mld-local-group</i>	(Optional) mld local group
<i>mld-translated</i>	(Optional) mld translated
<i>mld-uptime</i>	(Optional) mld uptime

<i>mld-expire</i>	(Optional) mld expire
-------------------	-----------------------

**Command Mode**

- /exec

## show ipv6 mld local-groups

```
show ipv6 [ icmp ] mld local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf> { TABLE_entry <group-addr> <source-addr> <static-oif> <local-group>
<if-name> <last-reported> } ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
local-groups	Display MLD local group membership information
<i>interface</i>	(Optional) Display group membership on interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) vrf table
<i>vrf</i>	(Optional) vrf
TABLE_entry	(Optional) entry table
<i>static-oif</i>	(Optional) static oif
<i>local-group</i>	(Optional) local group
<i>if-name</i>	(Optional) interface name
<i>last-reported</i>	(Optional) last reported

### Command Mode

- /exec



## show ipv6 mroute

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

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) Multicast VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IPv6 multicast routing table
summary	(Optional) Display route counts and packet rates
software-forwarded	(Optional) Display software switched route counts only
rp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
count	(Optional) Display route counts only
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_addr	(Optional)
<i>mcast-addr</i>	(Optional)
<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>uptime</i>	(Optional)

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

<i>bit-rate-in-bps</i>	(Optional)
<i>oifs</i>	(Optional)
<i>software-pkts</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 mtu

```
show ipv6 mtu [ statistics | vrf { <vrf-name> | <vrf-known-name> | all [ detail ] } ] [ __readonly__ [
TABLE_mtu_stat <out-ent> <exp-ent> <purge-ent> <int-err> <pkt-too-big> <cache-miss> <cache-upd>
<mtu-small> <cache-no-upd> ] [ TABLE_mtu_vrf [ <tot-ipv6-mtu> ] [ TABLE_one_mtu [ <pmtu-entxt> ]
[ { <mtu-ipv6> <mtu-cache> <up-time> <iod-lcache> } ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPV6 information
mtu	Display IPV6 Path MTU Cache
statistics	(Optional) Display non-TCP Path MTU Statistics
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_mtu_stat	(Optional) mtu statistic table
<i>out-ent</i>	(Optional) outstanding entries
<i>exp-ent</i>	(Optional) expired entries
<i>purge-ent</i>	(Optional) purge entries
<i>int-err</i>	(Optional) internal entries
<i>pkt-too-big</i>	(Optional) packets too big meassages received
<i>cache-miss</i>	(Optional) cache misses
<i>cache-upd</i>	(Optional) cache updates
<i>mtu-small</i>	(Optional) too small mtu advertised
<i>cache-no-upd</i>	(Optional) cache no update
TABLE_mtu_vrf	(Optional) MTU vrf table
<i>tot-ipv6-mtu</i>	(Optional) total ipv6 mtu messages
TABLE_one_mtu	(Optional) MTU table

<i>pmtu-cntxt</i>	(Optional) pmtu context
<i>mtu-cache</i>	(Optional) mtu cache
<i>up-time</i>	(Optional) up time
<i>iod-lcache</i>	(Optional) iod lcache

**Command Mode**

- /exec

## show ipv6 nd ra dns search-list

```
show ipv6 nd ra dns search-list [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <list_no> <list_name> [ { <finite> | <infinite> } ] <seq_no> } ]
} ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
interface	(Optional) Display DNS Search List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>dns_supress_server_list</i>	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
<i>list_no</i>	(Optional) Search list number
<i>list_name</i>	(Optional) Search list name
<i>finite</i>	(Optional) Search list life time
<i>infinite</i>	(Optional) Search list infinte time
<i>seq_no</i>	(Optional) Search list sequence number

### Command Mode

- /exec

## show ipv6 nd ra dns server

```
show ipv6 nd ra dns server [ interface <interface> ] [ __readonly__ [ { TABLE_intf_name [ <inf-name> ] } ] ] [ { TABLE_intf [ <dns-recursion-server-list> ] [ <dns-suppression-server-list> ] [ { TABLE_dns_server [ <dns-server-index> ] [ <dns-server-list> ] [ <lifetime> ] [ <second-seqno> ] } ] ] [ { TABLE_dns_seq [ <dns-server> ] [ <dns-addr> ] [ <infinite-seq-no> ] } ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
interface	(Optional) Display Recursive DNS Server List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf_name	(Optional) interface table
<i>inf-name</i>	(Optional) interface name
TABLE_intf	(Optional)
<i>dns-recursion-server-list</i>	(Optional) DNS recursion server list
<i>dns-suppression-server-list</i>	(Optional) DNS suppression server list
TABLE_dns_server	(Optional) DNS server table
<i>dns-server-index</i>	(Optional) dns server index
<i>dns-server-list</i>	(Optional) dns server list
<i>lifetime</i>	(Optional) server lifetime
<i>second-seqno</i>	(Optional) second sequence number
TABLE_dns_seq	(Optional) DNS sequence table
<i>dns-server</i>	(Optional) dns server
<i>dns-addr</i>	(Optional) dns address
<i>infinite-seq-no</i>	(Optional) infinite sequence number

**Command Mode**

- /exec



## show ipv6 nd raguard policy

```
show ipv6 nd raguard policy [ <name> ] [ __readonly__ { TABLE_raguard_policy <policy> [ <port_type>
] <device_role> [ <min_hop_limit> ] [ <max_hop_limit> ] [ <mgd_conf_flag> ] [ <other_conf_flag> ] [
<rtr_pref_max> ] [ <ra_prefix_list> ] [ <ipv6_acl> ] [ { TABLE_raguard_targets <target> <target_type>
<target_policy> <feature> <target_range> } ] } ]
```

### Syntax Description

<i>name</i>	(Optional) Policy name for feature RA guard
<i>__readonly__</i>	(Optional)
TABLE_raguard_policy	(Optional) IPv6 RA guard policy
<i>policy</i>	(Optional) Policy Name
<i>port_type</i>	(Optional) Port type
<i>device_role</i>	(Optional) Device role
<i>min_hop_limit</i>	(Optional) Minimum hop limit
<i>max_hop_limit</i>	(Optional) Minimum hop limit
<i>mgd_conf_flag</i>	(Optional) Check managed config flag
<i>other_conf_flag</i>	(Optional) Check other config flag
<i>rtr_pref_max</i>	(Optional) Router-preference maximum
<i>ra_prefix_list</i>	(Optional) Match RA prefix list
<i>ipv6_acl</i>	(Optional) Match IPv6 access list
TABLE_raguard_targets	(Optional) RA Guard Targets table
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>target_policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

### Command Mode

- /exec

# show ipv6 neighbor binding

```
show ipv6 neighbor binding [ { { vlan <vlanid> [ details ] } | { { address { <ipv6-addr> | all } } { interface
<intfid> vlan <vlanid> [ details ] }
```

## Syntax Description

<i>intfid</i>	(Optional) [details]
show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) Vlan number

## Command Mode

- /exec

# show ipv6 neighbor binding mac

```
show ipv6 neighbor binding mac <macaddr> { interface <intfid> vlan <vlanid> [ details ] |
```

## Syntax Description

<i>intfid</i>	[details]
show	Show running system information
ipv6	Show the IPv6 features of the system
<i>macaddr</i>	48-bit hardware address
<i>vlanid</i>	Vlan number

## Command Mode

- /exec

## show ipv6 neighbor static

```
show ipv6 neighbor static [ interface <interface> ] [ __readonly__ [ TABLE_i6_nei { <nei-ipv6> <nei-mac>
<nei-iod> <nei-if-iod> } ] [ <tot-nei-ent> ] [ TABLE_nei_cnt { <nei-ipv6-tot> <nei-mac-tot> <nei-iod-tot>
<nei-if-iod-tot> } ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
neighbor	Show IPv6 neighbor entry
static	Displays only static neighbors
interface	(Optional) Display IPv6 related interface information
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_i6_nei	(Optional) ipv6 neighbor table
<i>nei-mac</i>	(Optional) neighbor mac address
<i>nei-iod</i>	(Optional) neighbor iod
<i>nei-if-iod</i>	(Optional) neighbor interface iod
<i>tot-nei-ent</i>	(Optional) total neighbor entries
TABLE_nei_cnt	(Optional) neighbor count table
<i>nei-mac-tot</i>	(Optional) neighbor mac address
<i>nei-iod-tot</i>	(Optional) neighbor iod
<i>nei-if-iod-tot</i>	(Optional) neighbor physical interface iod

### Command Mode

- /exec

## show ipv6 pim df

```
show ipv6 pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
<out-context> ] [ { TABLE_rp [ <rp-addr> ] [ <df-ordinal> ] [ <df-bits> ] [ <df-bits-count> ] [ <metric-pref> ]
] [ <metric> ] [ { TABLE_grange [ <grange-grp> ] [ <grange-masklen> } ] [ { TABLE_iod [ <if-name> ]
[ <df-winner> ] [ <df-state> ] [ <winner-metric-pref> ] [ <winner-metric> ] [ <uptime> ] [ <is-rpf> } ] } ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
df	Display Bidir Designated Forwarders
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)

<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

**Command Mode**

- /exec

# show ipv6 pim fabric info

show ipv6 pim fabric info [ *\_\_readonly\_\_* <*switch\_role*> ]

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
info	show the fabric info
<i>__readonly__</i>	(Optional)
<i>switch_role</i>	(Optional)

## Command Mode

- /exec

# show ipv6 pim fabric legacy-vlans

show ipv6 pim fabric legacy-vlans [ *\_\_readonly\_\_* *TABLE\_legacy\_vlan* <*vlan\_id*> ]

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
<i>__readonly__</i>	(Optional)
<i>TABLE_legacy_vlan</i>	(Optional)
<i>vlan_id</i>	(Optional)

## Command Mode

- /exec



## show ipv6 pim group-range

```
show ipv6 pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <out-context> ] [ { TABLE_group [ <invalid-grp> ] [ <grp-addr> ] [ <mode> ] [ <rp-addr> ]
[ <sh-tree-only-range> ] } ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
group-range	Display the various group ranges
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>mode</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>sh-tree-only-range</i>	(Optional)

### Command Mode

- /exec

## show ipv6 pim interface

```
show ipv6 pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
[ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name> ] [ <if-addr> ] [ <if-nbr-count>
] [ <if-is-border> ] [ <if-dr> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [ <if-addr> ] [ <dr> ] [
<is-iface-in-cib> ] [ <if-addr-summary> ] [ <dr-priority> ] [ <no-dr-priority> ] [ <nbr-cnt> ] [
<hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-sec> ] [ <holdtime-msec> ] [
<is-border> ] [ <genid> ] [ <isauth-config> ] [ <nbr-policy-name> ] [ <jp-in-policy-name> ] [
<jp-out-policy-name> ] [ <is-passive> ] [ <last-cleared> ] [ <hello-sent> ] [ <hello-rcvd> ] [ <jp-sent> ] [
<jp-rcvd> ] [ <assert-sent> ] [ <assert-rcvd> ] [ <graft-sent> ] [ <graft-rcvd> ] [ <graft-ack-sent> ] [
<graft-ack-rcvd> ] [ <df-offer-sent> ] [ <df-offer-rcvd> ] [ <df-winner-sent> ] [ <df-winner-rcvd> ] [
<df-backoff-sent> ] [ <df-backoff-rcvd> ] [ <pass-sent> ] [ <pass-rcvd> ] [ <cksum-errors> ] [ <invalid-errors>
] [ <invalid-df-errors> ] [ <auth-failed> ] [ <pak-len-errors> ] [ <ver-errors> ] [ <pkts-self> ] [ <pkts-non-nbr>
] [ <pkts-on-passive> ] [ <jp-rcvd-on-rpf> ] [ <jp-rcvd-no-rp> ] [ <jp-rcvd-wrong-rp> ] [ <jp-rcvd-for-ssm>
] [ <jp-rcvd-for-bidir> ] [ <jp-in-policy-filter> ] [ <jp-out-policy-filter> ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
interface	Display PIM6 interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_brief	(Optional)
<i>if-name</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>if-dr</i>	(Optional)

<i>if-nbr-count</i>	(Optional)
<i>if-is-border</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>dr</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)

<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)
<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)
<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)

<i>jp-out-policy-filter</i>	(Optional)
-----------------------------	------------

**Command Mode**

- /exec

## show ipv6 pim neighbor

```
show ipv6 pim neighbor { [ <interface> ] | [ <ipv6addr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
[ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor <nbr-addr><if-name><uptime><expires>
[ <dr-priority> ] <bidir-capable> <bfd-state><name> [ TABLE_secondary <sec-addr> ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
neighbor	Display PIM6 neighbor related information
<i>interface</i>	(Optional) Display neighbors on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_neighbor	(Optional)
<i>dr-priority</i>	(Optional)
<i>bidir-capable</i>	(Optional)
TABLE_secondary	(Optional)

### Command Mode

- /exec

## show ipv6 pim oif-list

```
show ipv6 pim oif-list <group> [ <source> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf-name> { TABLE_grp <mcast-addr> <incoming-intf> <rpf-nbr> <timeout-interval>
<oif-list-count> [ { TABLE_oiflist <oif-name> } ] <timeout-list-count> [ { TABLE_timeoutlist
<timeoutoif-name> } ] <immediate-list-count> [ { TABLE_immediatelist <immediateoif-name> } ]
<immediate-timeout-list-count> [ { TABLE_immediatettimeoutlist <immediatettimeoutoif-name> } ]
<mgr-prune-list-count> [ { TABLE_mgrprunelist <mgrprunelistoif-name> } } ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
oif-list	Display interfaces for oif-list of PIM6 route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_grp	(Optional)
<i>mcast-addr</i>	(Optional)
<i>incoming-intf</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>oif-list-count</i>	(Optional)
TABLE_oiflist	(Optional)
<i>oif-name</i>	(Optional)
<i>timeout-list-count</i>	(Optional)
TABLE_timeoutlist	(Optional)
<i>timeoutoif-name</i>	(Optional)
<i>immediate-list-count</i>	(Optional)

TABLE_immediatelist	(Optional)
<i>immediateoif-name</i>	(Optional)
<i>immediate-timeout-list-count</i>	(Optional)
TABLE_immediatettimeoutlist	(Optional)
<i>immediatettimeoutoif-name</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>sgrprunelisoif-name</i>	(Optional)

**Command Mode**

- /exec



## show ipv6 pim policy statistics jp

```
show ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<name> <action> <seq_num> [ { TABLE_cmd <command> <match_count> <compare_count> } ] }
<total_accept_count> <total_reject_count> ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface to display policy statistics for
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

### Command Mode

- /exec

## show ipv6 pim route

```
show ipv6 pim route { [ bitfield ] | <source> <group> | <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <context-name> <route-count> [ TABLE_one_route
<mcast-addr> [ <rp-addr> <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <is-fabricowned> ] [ <sgexpire> ] [
<timeleft> ] [ <rp-bit> ] [ <register> ] [ <assert-timeout> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr>
] [ <rpf-nbr-2> ] [ <metric-pref> <route-metric> ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [
<timeout-bf-str> ] [ <immediate-count> ] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [
<immediate-timeout-bf-str> ] [ <sgr-prune-list-count> ] [ <sgr-prune-list-bf-str> ] [ <timeout-interval>
<jp-holdtime-rndup> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
route	Display PIM6 specific route information
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>is-fabricowned</i>	(Optional)
<i>sgexpire</i>	(Optional)

<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>assert-timeout</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>rpf-nbr-2</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>route-metric</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oif-bf-str</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>timeout-bf-str</i>	(Optional)
<i>immediate-count</i>	(Optional)
<i>immediate-bf-str</i>	(Optional)
<i>immediate-timeout-count</i>	(Optional)
<i>immediate-timeout-bf-str</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
<i>sgr-prune-list-bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime-rndup</i>	(Optional)

### Command Mode

- /exec

## show ipv6 pim rp-hash

```
show ipv6 pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ <out-context>
] [ <rp-found> ] [ <is-rp-bsr-learnt> ] [ <out-group> ] [ <hash-length> ] [ <out-bsr> ] [ { TABLE_rp [ <rp-addr>
] [ <hash> ] [ <isbest_hash> } } ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp-hash	Display RP hash value for group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learnt</i>	(Optional)
<i>hash-length</i>	(Optional)
TABLE_rp	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

### Command Mode

- /exec



<i>bsr-expires</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
TABLE_arp_rp	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>is-rp-in-cib</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>is-rp-static</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>is-bsr-rp-owner</i>	(Optional)
<i>is-static-rp-owner</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 pim statistics

```
show ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_context [
<out-context> ] [ <uptime> ] [ <reg-sent> ] [ <reg-rcvd> ] [ <null-reg-sent> ] [ <null-reg-rcvd> ] [
<reg-stop-sent> ] [ <reg-stop-rcvd> ] [ <reg-rcvd-not-rp> ] [ <reg-rcvd-for-ssm> ] [ <reg-rcvd-for-bidir> ] [
<bootstrap-sent> ] [ <bootstrap-rcvd> ] [ <cand-rp-sent> ] [ <cand-rp-rcvd> ] [ <bs-no-nbr> ] [
<bs-border-deny> ] [ <bs-len-errors> ] [ <bs-rpf-failed> ] [ <bs-no-listen> ] [ <candrp-border-deny> ] [
<candrp-no-listen> ] [ <ctrl-no-route> ] [ <data-no-route> ] [ <no-state> ] [ <create-state> ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)
<i>bootstrap-sent</i>	(Optional)

<i>bootstrap-rcvd</i>	(Optional)
<i>cand-rp-sent</i>	(Optional)
<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

**Command Mode**

- /exec



## show ipv6 pim vrf

```
show ipv6 pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ [ TABLE_context [
<out-context> ] [ <context-id> ] [ <count> ] [ <bfd-enabled> ] [ <table-id> ] [ <state-limit> ] [ <available-states>
] [ <reserved-limit> ] [ <available-reserved> ] [ <reserve-policy> ] [ <register-rate-limit-pps> ] [
<shared-tree-route-map> ] [ TABLE_RANGE [ <shared-tree-ranges> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM6 is configured for
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)
<i>bfd-enabled</i>	(Optional)
<i>state-limit</i>	(Optional)
<i>available-states</i>	(Optional)
<i>reserved-limit</i>	(Optional)
<i>available-reserved</i>	(Optional)
<i>reserve-policy</i>	(Optional)
<i>register-rate-limit-pps</i>	(Optional)
<i>shared-tree-route-map</i>	(Optional)
TABLE_RANGE	(Optional)

<i>shared-tree-ranges</i>	(Optional)
---------------------------	------------

**Command Mode**

- /exec

# show ipv6 policy

```
show ipv6 policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

## Command Mode

- /exec

## show ipv6 prefix-list

```
show ipv6 prefix-list { [ detail | summary ] [ <ipv6-pfl-name> | <ipv6-pfl-cfg-name> ] } | { { <ipv6-pfl-name>
| <ipv6-pfl-cfg-name> } seq <seq-no> } | { { <ipv6-pfl-name> | <ipv6-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ipv6_pfl <name> <seq> <action> <rule> ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
prefix-list	List IPv6 prefix lists
<i>ipv6-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv6-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ipv6_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

### Command Mode

- /exec

## show ipv6 process

```
show ipv6 process [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ipv6_all {
<cnxt-name> <cnxt-id> } ] [ TABLE_ipv6 { <ipv6-vrf> <ipv6-vrf-id> <auto-disc> <auto-add> <sta-disc>
<sta-def> [ <ipv6-unreach> } ] [ TABLE_iod { <iod-val> <iod-ifind> } ] [ TABLE_ipv6_nxt { <ipv6-nxt>
} ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_all	(Optional) IPV6 process table
<i>cnxt-name</i>	(Optional) context name
<i>cnxt-id</i>	(Optional) context name
TABLE_ipv6	(Optional) ipv6 table
<i>ipv6-vrf</i>	(Optional) vrf name
<i>ipv6-vrf-id</i>	(Optional) vrf id
<i>auto-disc</i>	(Optional) auto discard
<i>auto-add</i>	(Optional) auto add
<i>sta-disc</i>	(Optional) static discard
<i>sta-def</i>	(Optional) static def
<i>ipv6-unreach</i>	(Optional) ipv6 unreachable
TABLE_iod	(Optional) IOD table
<i>iod-val</i>	(Optional) iod value
<i>iod-ifind</i>	(Optional) iod if index
TABLE_ipv6_nxt	(Optional) ipv6 next hop table

**Command Mode**

- /exec

# show ipv6 raguard statistics

```
show ipv6 raguard statistics [ interface <intf-range> ] [ __readonly__ <msg_stats_hdr> <intf2> <rx_pkts>
<drop_count> ]
```

## Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
raguard	IPV6 raguard
statistics	RA packet drop count
interface	(Optional) Raguard enabled interfaces
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>intf2</i>	(Optional) interface name
<i>rx_pkts</i>	(Optional)
<i>drop_count</i>	(Optional)

## Command Mode

- /exec

## show ipv6 rip policy statistics redistribute

```
show ipv6 rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospfv3 |
lisp } <tag> | direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_asn
<asn> TABLE_vrf <vrf> [ TABLE_rmap [ <name> <action> <seq_num> ] [ TABLE_cmd <command> [
<compare_count> ] <match_count> ] ] <total_accept_count> <total_reject_count> ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
lisp	LISP EID-prefixes
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)



TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_rmap	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq_num</i>	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
<i>command</i>	(Optional) Route-map command
<i>compare_count</i>	(Optional) Number of comparisons
<i>match_count</i>	(Optional) Number of matches
<i>total_accept_count</i>	(Optional) Total number of packets accepted by the policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by the policy

**Command Mode**

- /exec

## show ipv6 route

```
show ipv6 route [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix>
[ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop
<next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary |
{ [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached>
] TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ]
<uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] ] [
TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
route	Display IPv6 routing table
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
l3vm-info	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
rpf	(Optional) Display RPF information for multicast source
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
<i>ipv6-protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
bind-label	(Optional) Display routes with this bind-label only
<i>bind-lbl</i>	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
interface	(Optional) Display routes with this output interface only

<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
deleted	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail	(Optional) Display routes in full detail
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>nexthop-vrf-name</i>	(Optional)
<i>ifname</i>	(Optional)
<i>bindlbl</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)

<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>stalelbl</i>	(Optional)
<i>hidden</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 routers

```
show ipv6 routers [ all-routers ] [ [ interface <interface> ] | [ vrf { <vrf-name> | <vrf-known-name> | all } ] ]
[ [ __readonly__ { TABLE_ipv6_routers [ TABLE_interface_ipv6 { <rtr-ipv6> <ipv6-int-addr> <rtr-flo-time>
<curr-hop-lmt> <life-time> <addr-flag> <other-flg> <mtu-rtr> <hm-agent-flg> <preference> <reach-time>
<retrans-time> [ TABLE_prefix_ipv6 { <ipv6-prefix> <buf-ipv6> <buf-autono> <valid-life-time> <prefer-life>
} } ] } ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
routers	Display neighbor router information
all-routers	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
interface	(Optional) Display neighbor router information on interface
<i>interface</i>	(Optional) Interface name to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_routers	(Optional) ipv6 router table
TABLE_interface_ipv6	(Optional) ipv6 interface table
<i>ipv6-int-addr</i>	(Optional) ipv6 interface address
<i>rtr-flo-time</i>	(Optional) last updated time
<i>curr-hop-lmt</i>	(Optional) current hop limit
<i>life-time</i>	(Optional) life time
<i>addr-flag</i>	(Optional) address flag
<i>other-flg</i>	(Optional) other flag
<i>mtu-rtr</i>	(Optional) router MTU
<i>hm-agent-flg</i>	(Optional) home agent flag
<i>preference</i>	(Optional) preference
<i>reach-time</i>	(Optional) reachable time

<i>retrans-time</i>	(Optional) retransmission time
TABLE_prefix_ipv6	(Optional) ipv6 prefix table
<i>ipv6-prefix</i>	(Optional) ipv6 prefix
<i>buf-ipv6</i>	(Optional) ipv6 buffer
<i>buf-autono</i>	(Optional) ipv6 buffer autonomous flag
<i>valid-life-time</i>	(Optional) ipv6 valid life time
<i>prefer-life</i>	(Optional) ipv6 preferred life time

**Command Mode**

- /exec

# show ipv6 snooping capture-policy

```
show ipv6 snooping capture-policy [ vlan <vlanid> ] [ interface <intf> ] [ __readonly__ <cmdout> ]
```

## Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) VLAN ID
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
<i>cmdout</i>	(Optional)

## Command Mode

- /exec

## show ipv6 snooping counters vlan

```
show ipv6 snooping counters { { vlan <vlanid> } | { interface <intf> } } [ __readonly__ [ {
TABLE_target_counters <target> [ { TABLE_protocol_msgs <protocol_name> [ { TABLE_sub_protocol_msgs
[ <subfield_name> ] [ <msg_count> ] } ] } ] [ { TABLE_bridged_msgs <protocol_name> [ {
TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] } ] } ] [ { TABLE_dropped_msgs
<feature_name> <protocol_name> [ { TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] [
<drop_reason> ] } ] } ] } ] }
```

### Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	VLAN ID
<i>intf</i>	interface
<i>__readonly__</i>	(Optional)
TABLE_target_counters	(Optional) Policy counters per target
<i>target</i>	(Optional) Target Name
TABLE_protocol_msgs	(Optional) Protocol messages table
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name
<i>msg_count</i>	(Optional) Message count
TABLE_bridged_msgs	(Optional) Bridged messages table
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name
<i>msg_count</i>	(Optional) Message count
TABLE_dropped_msgs	(Optional) Bridged messages table
<i>feature_name</i>	(Optional) Feature name
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name



<i>msg_count</i>	(Optional) Message count
<i>drop_reason</i>	(Optional) Drop reason

**Command Mode**

- /exec

# show ipv6 snooping events

show ipv6 snooping events [ \_\_readonly\_\_ <cmdout> ]

## Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
<i>cmdout</i>	(Optional)

## Command Mode

- /exec

# show ipv6 snooping features

```
show ipv6 snooping features [ __readonly__ { TABLE_features <name> <priority> <state> } ]
```

## Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
TABLE_features	(Optional) IPv6 Snooping Features
<i>name</i>	(Optional) Name
<i>priority</i>	(Optional) Priority
<i>state</i>	(Optional) State

## Command Mode

- /exec

# show ipv6 snooping messages

show ipv6 snooping messages [ detailed <count> ] [ \_\_readonly\_\_ <cmdout> ]

## Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>count</i>	(Optional) Number of messages to display
<i>__readonly__</i>	(Optional)
<i>cmdout</i>	(Optional)

## Command Mode

- /exec

# show ipv6 snooping policies

```
show ipv6 snooping policies { [ vlan <vlanid> ] | [ interface <intf> ] } [ __readonly__ { TABLE_policies
<target> <target_type> <policy> <feature> <target_range> } ]
```

## Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) VLAN ID
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_policies	(Optional) IPv6 Snooping Policies
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

## Command Mode

- /exec

## show ipv6 snooping policy

```
show ipv6 snooping policy [ <policy_name> ] [ __readonly__ { [ TABLE_glean_policy <policy> [ <port_type>
] <sec_lvl> <device_role> [ <data_glean> ] [ <dest_glean> ] [ <glean_type> ] [ <reachable_lifetime> ] [
<stale_lifetime> ] } { [ TABLE_non_glean_protocols | TABLE_glean_protocols # 395
../feature/sisf/core/nxos/src/sisf_glean_dme.cmd <protocol> [ <prefix_list> ] } } [ <limit_address_cnt> ] [
<limit_address_cnt_v4_per_mac> ] [ <limit_address_cnt_v6_per_mac> ] [ <limit_address_cnt_v4_per_target>
] [ <tracking> ] { { [ TABLE_targets <target> <target_type> <target_policy> <feature> <target_range> ] } }
]
```

### Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>policy_name</i>	(Optional) Policy name for feature snooping
<i>__readonly__</i>	(Optional)
TABLE_glean_policy	(Optional) IPv6 DHCP guard policy
<i>policy</i>	(Optional) Policy Name
<i>port_type</i>	(Optional) Port type
<i>sec_lvl</i>	(Optional) Security level
<i>device_role</i>	(Optional) Device role
<i>data_glean</i>	(Optional) Data glean
<i>dest_glean</i>	(Optional) Destination glean
<i>glean_type</i>	(Optional) Glean type
<i>reachable_lifetime</i>	(Optional) Reachable lifetime
<i>stale_lifetime</i>	(Optional) Stale lifetime
TABLE_non_glean_protocols	(Optional) Non Glean protocols
<i>protocol</i>	(Optional) Protocol
TABLE_glean_protocols	(Optional) Glean protocols
<i>prefix_list</i>	(Optional) Prefix list
<i>limit_address_cnt</i>	(Optional) Limit address count
<i>limit_address_cnt_v4_per_mac</i>	(Optional) Limit address count v4 per mac
<i>limit_address_cnt_v6_per_mac</i>	(Optional) Limit address count v6 per mac
<i>limit_address_cnt_v4_per_target</i>	(Optional) Limit address count v4 per target

<i>tracking</i>	(Optional) Tracking
TABLE_targets	(Optional) Targets table
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>target_policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

**Command Mode**

- /exec

# show ipv6 snooping pss database

show ipv6 snooping pss database [ \_\_readonly\_\_ <cmdout> ]

## Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
<i>cmdout</i>	(Optional)

## Command Mode

- /exec



## show ipv6 static-route

```
show ipv6 static-route [ <prefix> ] [ multicast ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ [ TABLE_vrf <vrf-name-out> ] [ TABLE_route [ <prefix-out> ] [ <next-hop> ] [ <intf-name>
] [ <pref> ] [ <next-hop-vrf> ] [ <reslv-tid> ] [ <real-nh> ] [ <has-real-intf> ] [ <real-intf-name> ] [ <track-id>
] [ <track-status> ] [ <rnh-status> ] [ <bfd-status> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
static-route	Display configured static routes
multicast	(Optional) Display configured static mroutes
track-table	(Optional) Display track object details associated with static routes
all	(Optional) Display all VRFs
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name-out</i>	(Optional) vrf name
TABLE_route	(Optional) Route table
<i>intf-name</i>	(Optional) interface name
<i>pref</i>	(Optional) interface prefix
<i>next-hop-vrf</i>	(Optional) next hop vrf
<i>reslv-tid</i>	(Optional) reslv tid
<i>has-real-intf</i>	(Optional) has real interface
<i>real-intf-name</i>	(Optional) real interface name
<i>track-id</i>	(Optional) interface track id
<i>track-status</i>	(Optional) interface track status
<i>rnh-status</i>	(Optional) interface rn timer status
<i>bfd-status</i>	(Optional) interface bfd status

**Command Mode**

- /exec

# show ipv6 traffic

```
show ipv6 traffic [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ TABLE_vrf
<vrf-name-out> ] TABLE_ipv6_traffic <uptime> <upkt-fwd> <mpkt-fwd> <ubyte-fwd> <mbyte-fwd>
<upkt-orig> <mpkt-orig> <ubyte-orig> <mbyte-orig> <upkt-consumed> <mpkt-consumed> <ubyte-consumed>
<mbyte-consumed> <ufrag-orig> <mfra-orig> <ufrag-consumed> <mfrag-consumed> <bad-version>
<rt-lookup-fail> <hoplimit-excd> <opt-header-error> <pld-length-too-small> <pm-failed> <mbuf-error>
<could-not-enc> <dest-if-down> <rx-pkts-recv> <rx-bytes-recv> <rx-inhderrors> <rx-innoroutes>
<rx-inaddrrerrors> <rx-inunknownprotos> <rx-intruncatedpkts> <rx-inforwdgrams> <rx-reasmreqds>
<rx-reasmoks> <rx-reasmfails> <rx-indiscards> <rx-indelivers> <rx-inmcastpkts> <rx-inmcastbytes>
<tx-pkts-sent> <tx-bytes-sent> <tx-outrequests> <tx-outnoroutes> <tx-outforwdgrams> <tx-outdiscards>
<tx-outfragreqds> <tx-outfragoks> <tx-outfragfails> <tx-outfragcreates> <tx-outtransmits> <tx-outmcastpkts>
<tx-outmcastbytes> ]
```

## Syntax Description

show	Show running system information
ipv6	Display IPv6 information
traffic	Display IPv6 traffic statistics
detail	(Optional) Display per protocol IPv6 statistics
vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name-out</i>	(Optional) vrf name
TABLE_ipv6_traffic	(Optional) ipv6 traffic table
<i>uptime</i>	(Optional) up time
<i>upkt-fwd</i>	(Optional) unicast packets forward
<i>mpkt-fwd</i>	(Optional) multicast packets forward
<i>ubyte-fwd</i>	(Optional) unicast byte forward
<i>mbyte-fwd</i>	(Optional) multicast byte forward
<i>upkt-orig</i>	(Optional) unicast packet origin
<i>mpkt-orig</i>	(Optional) multicast packet origin
<i>ubyte-orig</i>	(Optional) unicast byte origin

<i>mbyte-orig</i>	(Optional) multicast byte origin
<i>upkt-consumed</i>	(Optional) unicast packet consumed
<i>mpkt-consumed</i>	(Optional) multicast packet consumed
<i>ubyte-consumed</i>	(Optional) unicast byte consumed
<i>mbyte-consumed</i>	(Optional) multicast byte consumed
<i>ufrag-orig</i>	(Optional) unicast fragment origin
<i>mfra-orig</i>	(Optional) multicast fragment origin
<i>ufrag-consumed</i>	(Optional) unicast fragment consumed
<i>mfrag-consumed</i>	(Optional) multicast fragment consumed
<i>bad-version</i>	(Optional) bad version
<i>rt-lookup-fail</i>	(Optional) route lookup fail
<i>hoplimit-excd</i>	(Optional) hoplimit exceeded
<i>opt-header-error</i>	(Optional) opt header error
<i>pld-length-too-small</i>	(Optional) pld length too small
<i>pm-failed</i>	(Optional) packet manager failed
<i>mbuf-error</i>	(Optional) m-buffer error
<i>could-not-enc</i>	(Optional) could not encode
<i>dest-if-down</i>	(Optional) destination if down
<i>rx-pkts-recv</i>	(Optional) packets received
<i>rx-bytes-recv</i>	(Optional) bytes received
<i>rx-inhdrrrors</i>	(Optional) inhdr error
<i>rx-innoroutes</i>	(Optional) in-no routes
<i>rx-inaddrerrors</i>	(Optional) in-address error
<i>rx-inunknownprotos</i>	(Optional) in-unknown protocol
<i>rx-intruncatedpkts</i>	(Optional) in-truncated packets
<i>rx-inforwdgrams</i>	(Optional) in-forward
<i>rx-reasmreqds</i>	(Optional) reasm request
<i>rx-reasmoks</i>	(Optional) reasm ok
<i>rx-reasmfails</i>	(Optional) reasm fail

<i>rx-indiscards</i>	(Optional) in-discards
<i>rx-indelivers</i>	(Optional) in-delivers
<i>rx-inmcastpkts</i>	(Optional) in multicast packets
<i>rx-inmcastbytes</i>	(Optional) in multicast bytes
<i>tx-pkts-sent</i>	(Optional) packets sent
<i>tx-bytes-sent</i>	(Optional) bytes sent
<i>tx-outrequests</i>	(Optional) out request
<i>tx-outnoroutes</i>	(Optional) out no routes
<i>tx-outforwdgrams</i>	(Optional) out forwardgrams
<i>tx-outdiscards</i>	(Optional) out discards
<i>tx-outfragreqds</i>	(Optional) out fragment request
<i>tx-outfragoks</i>	(Optional) out fragment oks
<i>tx-outfragfails</i>	(Optional) out fragment fails
<i>tx-outfragcreates</i>	(Optional) out fragment creates
<i>tx-outtransmits</i>	(Optional) out transmits
<i>tx-outmcastpkts</i>	(Optional) out multicast packets
<i>tx-outmcastbytes</i>	(Optional) out multicast bytes

### Command Mode

- /exec

## show isis

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ process | protocol ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <instance_num> <uuid>
<process-id> <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <qh-out> <mtu-out> [ <gr-status-out>
] [ <gr-state-active-out> ] [ <gr-state-inactive-out> ] [ <last-gr-status-fail-out> ] [ <last-gr-status-success-out>
] [ <last-gr-status-none-out> ] [ <gr-status-disable-out> ] [ TABLE_afi_safi <af-ix> <af-bfd-config>
<af-pib-tag> ] <metric-style> <accept-metric> [ <net-set-none> ] [ TABLE_area_addr <area-addr-nsap> ] [
<proc-state-not-config> ] [ <proc-state-admin-down> ] [ <proc-state-l3vm-down> ] [
<proc-state-unknown-down> ] [ <proc-state-not-specified> ] [ <proc-state-no-net> ] [ <proc-state-no-vrf-id>
] [ <proc-state-out-memory> ] [ <proc-state-restart> ] [ <proc-state-running> ] <vrf-id-out> [ TABLE_te
<te-lvl-out> <te-lvl-active> ] [ <te-ted-out> ] [ <mpls-te-out> ] [ TABLE_mpls_te [ <mpls-te-lvl-out> ] [
<mpls-te-rtrid-intf-out> ] [ <mpls-te-fa-lvl-out> ] [ TABLE_te_fa <te-fa-sysid-out> <te-fa-intf-out> ] [
<te-stat-sys-id-out> ] [ <te-stat-rtr-id-out> ] [ TABLE_te_stat_lvl <te-stat-lvl-out> <te-stat-up-out>
<te-stat-down-out> ] [ <srte-registered-out> ] [ TABLE_segment_routing <af-out> <ptag-out> <cfg-out>
<enable-out> [ <exp-null-cfg> ] ] [ TABLE_iib_list_yeild <intf-name-out> ] [ TABLE_auth <auth-lvl-out>
[ <auth-type-no-type> ] [ <auth-type-clear-text> ] [ <auth-type-md5> ] [ <auth-type-key-chain> ] [
<auth-type-none> ] [ <auth-check> ] [ <auth-no-check> ] ] [ TABLE_spf <spf-lvl-out> [ <spf-timer> ] ] [
TABLE_distribute_ls <distribute-linkst-lvl> ] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
process	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
protocol	(Optional) Display IS-IS process information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>instance_num</i>	(Optional)
<i>uuid</i>	(Optional)
<i>process-id</i>	(Optional)
<i>vrf-name-out</i>	(Optional)

<i>system-id-out</i>	(Optional)
<i>is-type-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>gr-status-out</i>	(Optional)
<i>gr-state-active-out</i>	(Optional)
<i>gr-state-inactive-out</i>	(Optional)
<i>last-gr-status-fail-out</i>	(Optional)
<i>last-gr-status-success-out</i>	(Optional)
<i>last-gr-status-none-out</i>	(Optional)
<i>gr-status-disable-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>af-ix</i>	(Optional)
<i>af-bfd-config</i>	(Optional)
<i>af-pib-tag</i>	(Optional)
<i>metric-style</i>	(Optional)
<i>accept-metric</i>	(Optional)
<i>net-set-none</i>	(Optional)
TABLE_area_addr	(Optional)
<i>area-addr-nsap</i>	(Optional)
<i>proc-state-not-config</i>	(Optional)
<i>proc-state-admin-down</i>	(Optional)
<i>proc-state-l3vm-down</i>	(Optional)
<i>proc-state-unknown-down</i>	(Optional)
<i>proc-state-not-specified</i>	(Optional)
<i>proc-state-no-net</i>	(Optional)
<i>proc-state-no-vrf-id</i>	(Optional)
<i>proc-state-out-memory</i>	(Optional)

<i>proc-state-restart</i>	(Optional)
<i>proc-state-running</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
TABLE_te	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-lvl-active</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
TABLE_mpls_te	(Optional)
<i>mpls-te-lvl-out</i>	(Optional)
<i>mpls-te-rtrid-intf-out</i>	(Optional)
<i>mpls-te-fa-lvl-out</i>	(Optional)
TABLE_te_fa	(Optional)
<i>te-fa-sysid-out</i>	(Optional)
<i>te-fa-intf-out</i>	(Optional)
<i>te-stat-sys-id-out</i>	(Optional)
<i>te-stat-rtr-id-out</i>	(Optional)
TABLE_te_stat_lvl	(Optional)
<i>te-stat-lvl-out</i>	(Optional)
<i>te-stat-up-out</i>	(Optional)
<i>te-stat-down-out</i>	(Optional)
<i>srte-registered-out</i>	(Optional)
TABLE_segment_routing	(Optional)
<i>af-out</i>	(Optional)
<i>ptag-out</i>	(Optional)
<i>cfg-out</i>	(Optional)
<i>enable-out</i>	(Optional)
<i>exp-null-cfg</i>	(Optional)
TABLE_iib_list_yeild	(Optional)



<i>intf-name-out</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-lvl-out</i>	(Optional)
<i>auth-type-no-type</i>	(Optional)
<i>auth-type-cleartext</i>	(Optional)
<i>auth-type-md5</i>	(Optional)
<i>auth-type-key-chain</i>	(Optional)
<i>auth-type-none</i>	(Optional)
<i>auth-check</i>	(Optional)
<i>auth-no-check</i>	(Optional)
TABLE_spf	(Optional)
<i>spf-lvl-out</i>	(Optional)
<i>spf-timer</i>	(Optional)
TABLE_distribute_ls	(Optional)
<i>distribute-linkst-lvl</i>	(Optional)

### Command Mode

- /exec

## show isis adjacency

```
show isis [<isis-tag>] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency [ <interface> [ p2p-level-1-2 ] ] [ { system-id <sid> } ] [ detail ] [ summary ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <adj-summary-out> <adj-interface-out> [ <adj-interface-name-out> ] [ { TABLE_process_adj <adj-sys-name-out> <adj-sys-id-out> [ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out> <adj-hold-time-out> <adj-intf-name-out> <adj-detail-set-out> [ { <adj-transitions-out> <adj-flap-out> [ <adj-flap-time-out> ] <adj-ckt-type-out> <adj-ipv4-addr-out> <adj-ipv6-addr-out> <adj-bcast-out> [ { <adj-ckt-id-out> <adj-lan-prio-out> } ] <adj-bfd-ipv4-establish-out> <adj-bfd-ipv6-establish-out> <adj-resurrect-out> [ { <adj-resurrect-count-out> <adj-resurrect-hwm-out> } ] <adj-restart-capable-out> <adj-restart-ack-out> [ { <adj-restart-mode-out> <adj-restart-adj-seen-ra-out> <adj-restart-adj-seen-csnp-out> <adj-restart-adj-seen-l1-csnp-out> <adj-restart-adj-seen-l2-csnp-out> <adj-restart-suppress-adj-out> } ] [ { TABLE_adj_sid <adj-sid-value> <adj-sid-f-flag> <adj-sid-b-flag> <adj-sid-v-flag> <adj-sid-l-flag> <adj-sid-s-flag> <adj-sid-p-flag> <adj-sid-weight> } ] } ] } ] [ { TABLE_p2p_adj_sum <adj-summ-p2p-level-out> <adj-summ-p2p-state-out> <adj-summ-p2p-count-out> } ] [ { TABLE_lan_adj_sum <adj-summ-lan-level-out> <adj-summ-lan-state-out> <adj-summ-lan-count-out> } ] } ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
adjacency	Display IS-IS adjacency information
<i>interface</i>	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
p2p-level-1-2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	(Optional) Display IS-IS adjacency summary information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)

TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)
<i>adj-interface-name-out</i>	(Optional)
TABLE_process_adj	(Optional)
<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-ipv4-addr-out</i>	(Optional)
<i>adj-ipv6-addr-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-bfd-ipv4-establish-out</i>	(Optional)
<i>adj-bfd-ipv6-establish-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)
<i>adj-resurrect-hwm-out</i>	(Optional)
<i>adj-restart-capable-out</i>	(Optional)

<i>adj-restart-ack-out</i>	(Optional)
<i>adj-restart-mode-out</i>	(Optional)
<i>adj-restart-adj-seen-ra-out</i>	(Optional)
<i>adj-restart-adj-seen-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l1-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l2-csnp-out</i>	(Optional)
<i>adj-restart-suppress-adj-out</i>	(Optional)
TABLE_adj_sid	(Optional)
<i>adj-sid-value</i>	(Optional)
<i>adj-sid-f-flag</i>	(Optional)
<i>adj-sid-b-flag</i>	(Optional)
<i>adj-sid-v-flag</i>	(Optional)
<i>adj-sid-l-flag</i>	(Optional)
<i>adj-sid-s-flag</i>	(Optional)
<i>adj-sid-p-flag</i>	(Optional)
<i>adj-sid-weight</i>	(Optional)
TABLE_p2p_adj_sum	(Optional)
<i>adj-summ-p2p-level-out</i>	(Optional)
<i>adj-summ-p2p-state-out</i>	(Optional)
<i>adj-summ-p2p-count-out</i>	(Optional)
TABLE_lan_adj_sum	(Optional)
<i>adj-summ-lan-level-out</i>	(Optional)
<i>adj-summ-lan-state-out</i>	(Optional)
<i>adj-summ-lan-count-out</i>	(Optional)

**Command Mode**

- /exec

## show isis csnp

```
show isis [ <isis-tag> ] csnp [ detail ] [ __readonly__ TABLE_process_tag <process-tag-out> [ {
TABLE_CSNPLEVEL <csnp-level> <csnp-cache-valid> <csnp-cache-hit> <cscnp-cache-miss> <csnp-hit-rate>
[ { TABLE_CSNPLSPS <csnp-start-lsp-id> <csnp-end-lsp-id> <csnp-entry-valid> <csnp-pdu-lengh> [ {
TABLE_CSNPONELSP <csnp-lsp-id> <csnp-lsp-seq-num> <csnp-lsp-chk-sum> <csnp-lsp-life-time> } ] }
] } ] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
csnp	Display IS-IS CSNP cache contents
detail	(Optional) Display detailed IS-IS information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_CSNPLEVEL	(Optional)
<i>csnp-level</i>	(Optional)
<i>csnp-cache-valid</i>	(Optional)
<i>csnp-cache-hit</i>	(Optional)
<i>cscnp-cache-miss</i>	(Optional)
<i>csnp-hit-rate</i>	(Optional)
TABLE_CSNPLSPS	(Optional)
<i>csnp-start-lsp-id</i>	(Optional)
<i>csnp-end-lsp-id</i>	(Optional)
<i>csnp-entry-valid</i>	(Optional)
<i>csnp-pdu-lengh</i>	(Optional)
TABLE_CSNPONELSP	(Optional)
<i>csnp-lsp-id</i>	(Optional)
<i>csnp-lsp-seq-num</i>	(Optional)
<i>csnp-lsp-chk-sum</i>	(Optional)

<i>csnp-lsp-life-time</i>	(Optional)
---------------------------	------------

**Command Mode**

- /exec

## show isis database

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ <level> ] [ detail | advertise
| summary ] [ <lid> ] { [ zero-sequence ] | [ ip prefix <ip-prefix> ] | [ ipv6 prefix <ipv6-prefix> ] | [ router-id
<rid> ] | [ adjacency <adj-id> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <dbase-hname-absent-out> ] [ {
TABLE_process_lvl <dbase-level-out> [ { TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out>
<dbase-lsp-absent-out> [ { <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [ <dbase-lsp-lifetime-str-out> ]
[ <dbase-lsp-lifetime-out> ] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out>
} ] [ { <dbase-lsp-instance-out> [ { TABLE_process_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out>
] [ <dbase-lsp-is-nbr-name-out> ] [ <dbase-lsp-is-nbr-metric-out> ] [ <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> ] [ <dbase-lsp-es-nbr-metric-out> ] [ <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> ] [ <dbase-lsp-auth-len-out> ] [ { TABLE_process_extis [
<dbase-lsp-ext-is-name-out> ] [ <dbase-lsp-ext-is-metric-out> ] } ] [ <dbase-lsp-ip-ri-addr-out> ] [
<dbase-lsp-ip-ri-mask-out> ] [ <dbase-lsp-ip-ri-metric-out> ] [ <dbase-lsp-ip-ri-ext-metric-out> ] [
<dbase-lsp-ip-ri-up-down-out> ] [ <dbase-lsp-cap-rtrid> ] [ <dbase-lsp-cap-flags> ] [ { TABLE_process_nlpid
<dbase-lsp-prot-support-out> } ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out> ] [ {
TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out>
<dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> [ <dbase-lsp-extip-pfxsid> ] [
<dbase-lsp-extip-pfxsid-algo> ] [ <dbase-lsp-extip-pfxsid-flags> ] [ <dbase-lsp-extip-unknown-out> ] } ] [
<dbase-lsp-hname-out> ] [ <dbase-lsp-hname-len-out> ] [ { TABLE_process_extipv6
<dbase-lsp-extipv6-addr-out> <dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out>
<dbase-lsp-extipv6-up-down-out> <dbase-lsp-extipv6-ext-origin-out> [ <dbase-lsp-extipv6-pfxsid> ] [
<dbase-lsp-extipv6-pfxsid-algo> ] [ <dbase-lsp-extipv6-pfxsid-flags> ] [ <dbase-lsp-extipv6-unknown-out>
] } ] [ { TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-pri1-out> ] [
<dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [ <dbase-lsp-extis-pri2-val-out> ] [
<dbase-lsp-extis-te-metric-out> ] [ <dbase-lsp-extis-p2p-adjsid-out> ] [ <dbase-lsp-extis-p2p-adjsid-flags> ]
[ <dbase-lsp-extis-p2p-adjsid-weight> ] [ <dbase-lsp-extis-lan-adjsid-out> ] [ <dbase-lsp-extis-lan-adjsid-sysid>
] [ <dbase-lsp-extis-lan-adjsid-flags> ] [ <dbase-lsp-extis-lan-adjsid-weight> ] [
<dbase-lsp-cap-subtlv-sr-start-sid> ] [ <dbase-lsp-cap-subtlv-sr-end-sid> ] [ <dbase-lsp-cap-subtlv-sr-range>
] [ <dbase-lsp-cap-subtlv-sr-flags> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> ] } ]
[ <dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-unknown-out> ] } ] <dbase-lsp-digest-out> } } ] [ {
<dbase-lsp-total-out> [ { <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out> } } ] } ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Display IS-IS database information

<i>level</i>	(Optional) IS-IS level
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information
advertise	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
ip	(Optional) IP attribute filter
ipv6	(Optional) IPv6 attribute filter
prefix	(Optional) Prefix filter
<i>ip-prefix</i>	(Optional) Single exact match IP prefix filter
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
router-id	(Optional) Router-id filter
<i>rid</i>	(Optional) single exact match router-id filter
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>dbase-level-out</i>	(Optional)
TABLE_process_lsp	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-str-out</i>	(Optional)



<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)
<i>dbase-overload-out</i>	(Optional)
<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
TABLE_process_tlv	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)
<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)
<i>dbase-lsp-auth-len-out</i>	(Optional)
TABLE_process_extis	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
TABLE_process_nlpid	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)

TABLE_process_extip	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)
<i>dbase-lsp-extip-up-down-out</i>	(Optional)
<i>dbase-lsp-extip-pfxsid</i>	(Optional)
<i>dbase-lsp-extip-pfxsid-algo</i>	(Optional)
<i>dbase-lsp-extip-pfxsid-flags</i>	(Optional)
<i>dbase-lsp-extip-unknown-out</i>	(Optional)
<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
TABLE_process_extipv6	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid-algo</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid-flags</i>	(Optional)
<i>dbase-lsp-extipv6-unknown-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
TABLE_process_subtlv	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-subtlv-ip-addr-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)

<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-out</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-flags</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-weight</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-out</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-sysid</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-flags</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-weight</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)
<i>dbase-lsp-cap-rtrid</i>	(Optional)
<i>dbase-lsp-cap-flags</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-start-sid</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-end-sid</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-range</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-flags</i>	(Optional)

### Command Mode

- /exec

## show isis distribute-ls

```
show isis [ <isis-tag> ] distribute-ls { [ system-id <sid> ] [ lsp-id <lid> ] } [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <vrf-name-out>
<vrf-id-out> <lslib-connection-out> <client-type-out> <protocol-instance-out> <nxos-instance-out>
<ha-recovery-out> [ <queue-all-out> ] <update-timer-sec-out> <update-timer-msec-out>
<update-timer-running-out> [ <update-timer-due-in> ] [ { TABLE_process_lvl <level-out>
<level-distributing-out> [ { TABLE_ls_node [ <node-id-out> ] [ <node-name-out> ] [ { TABLE_ls_lsp
<lsp-id-out> <lsp-name-out> <lsp-purged-out> [ <node-grpid-out> ] [ <prefix-grpid-out> ] [ <link-grpid-out>
] [ <node-attr-bitfield-out> ] [ <node-flags-out> ] [ <attached-bit-out> ] [ <overloaded-bit-out> ] [ <area-id-out>
] [ <area-length-out> ] [ <name-out> ] [ <ipv4-id-out> ] [ { TABLE_srgb <number-out> <start-out> <size-out>
} ] [ <sr-algo-count-out> ] [ { TABLE_sr_algo <algo-out> } ] [ { TABLE_ls_link <nbr-node-out>
<local-ip-out> <remote-ip-out> [ <link-attr-bitfield-out> ] [ <metric-out> ] [ <local-ip-attr-out> ] [
<remote-ip-attr-out> ] [ <admin-group-out> ] [ <max-link-bw-out> ] [ <max-resv-bw-out> ] [ {
TABLE_unresv_bw <number-out> <bw-out> } ] [ <metric-te-out> ] [ { TABLE_adj_sid <asid-out> <flag-out>
<weight-out> } ] } ] [ { TABLE_ls_prefix <prefix-out> <prefix-len-out> [ <prefix-attr-bitfield-out> ] [
<metric-out> ] [ { TABLE_sid <sid-out> <algo-out> <flags-out> } ] } ] } ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
distribute-ls	Link-state distribution database
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
lsp-id	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
brief	(Optional) Short output
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)

<i>vrf-id-out</i>	(Optional)
<i>lslib-connection-out</i>	(Optional)
<i>client-type-out</i>	(Optional)
<i>protocol-instance-out</i>	(Optional)
<i>nxos-instance-out</i>	(Optional)
<i>ha-recovery-out</i>	(Optional)
<i>queue-all-out</i>	(Optional)
<i>update-timer-sec-out</i>	(Optional)
<i>update-timer-msec-out</i>	(Optional)
<i>update-timer-running-out</i>	(Optional)
<i>update-timer-due-in</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>level-out</i>	(Optional)
<i>level-distributing-out</i>	(Optional)
TABLE_ls_node	(Optional)
<i>node-id-out</i>	(Optional)
<i>node-name-out</i>	(Optional)
TABLE_ls_lsp	(Optional)
<i>lsp-id-out</i>	(Optional)
<i>lsp-name-out</i>	(Optional)
<i>lsp-purged-out</i>	(Optional)
<i>node-grpid-out</i>	(Optional)
<i>prefix-grpid-out</i>	(Optional)
<i>link-grpid-out</i>	(Optional)
<i>node-attr-bitfield-out</i>	(Optional)
<i>node-flags-out</i>	(Optional)
<i>attached-bit-out</i>	(Optional)
<i>overloaded-bit-out</i>	(Optional)
<i>area-id-out</i>	(Optional)

<i>area-length-out</i>	(Optional)
<i>name-out</i>	(Optional)
<i>ipv4-id-out</i>	(Optional)
TABLE_srgb	(Optional)
<i>number-out</i>	(Optional)
<i>start-out</i>	(Optional)
<i>size-out</i>	(Optional)
<i>sr-algo-count-out</i>	(Optional)
TABLE_sr_algo	(Optional)
<i>algo-out</i>	(Optional)
TABLE_ls_link	(Optional)
<i>nbr-node-out</i>	(Optional)
<i>local-ip-out</i>	(Optional)
<i>remote-ip-out</i>	(Optional)
<i>link-attr-bitfield-out</i>	(Optional)
<i>metric-out</i>	(Optional)
<i>local-ip-attr-out</i>	(Optional)
<i>remote-ip-attr-out</i>	(Optional)
<i>admin-group-out</i>	(Optional)
<i>max-link-bw-out</i>	(Optional)
<i>max-resv-bw-out</i>	(Optional)
TABLE_unresv_bw	(Optional)
<i>number-out</i>	(Optional)
<i>bw-out</i>	(Optional)
<i>metric-te-out</i>	(Optional)
TABLE_adj_sid	(Optional)
<i>asid-out</i>	(Optional)
<i>flag-out</i>	(Optional)
<i>weight-out</i>	(Optional)

TABLE_ls_prefix	(Optional)
<i>prefix-out</i>	(Optional)
<i>prefix-len-out</i>	(Optional)
<i>prefix-attr-bitfield-out</i>	(Optional)
<i>metric-out</i>	(Optional)
TABLE_sid	(Optional)
<i>sid-out</i>	(Optional)
<i>algo-out</i>	(Optional)
<i>flags-out</i>	(Optional)

**Command Mode**

- /exec

## show isis dynamic-flooding

```
show isis [ <isis-tag> ] dynamic-flooding [ tree-1 | tree-2 ] [ detail ] [ __readonly__ [ <df-process-tag-out> ]
[ <df-vrf-name-out> ] [ { TABLE_df_level [ <df-level-out> ] [ <df-level-config-out> ] [ <df-area-leader-cap-out>
] [ <df-area-leader-level-out> ] [ <df-algo-name-out> ] [ <df-algorithm-out> ] [ <df-priority-out> ] [
<df-primary-leader-level-out> ] [ <df-primary-leader-algo-name-out> ] [ <df-primary-leader-algo-out> ] [
<df-primary-leader-priority-out> ] [ <df-primary-leader-sysid-out> ] [ <df-secondary-leader-level-out> ] [
<df-secondary-leader-algo-name-out> ] [ <df-secondary-leader-algo-out> ] [ <df-secondary-leader-priority-out>
] [ <df-secondary-leader-sysid-out> ] [ <df-reach-matrix-level-out> ] [ { TABLE_source_info [
<df-reach-source-id-info> ] [ { TABLE_neighbor_info [ <df-reach-neighbor-id-out> ] [
<df-neighbor-overall-out> ] [ <df-neighbor-tree1-out> ] [ <df-neighbor-tree2-out> ] [
<df-neighbor-interface-id-out> ] [ <df-neighbor-name-out> ] } } ] [ { TABLE_FT_interface_info [
<df-ft-interface-name-out> ] } ] [ { TABLE_Temp_interface_info [ <df-temp-ft-interface-name-out> ] } ] [
{ TABLE_broadcast_interfaceinfo [ <df-interface-name-out> ] } } ] ] ] ]
```

### Syntax Description

show	Show running system information
isis	IS-IS events
<i>isis-tag</i>	(Optional) Routing process tag
dynamic-flooding	Display IS-IS information for Dynamic Flooding
tree-1	(Optional) Display dynamic-flooding information for tree-1
tree-2	(Optional) Display dynamic-flooding information for tree-2
detail	(Optional) Detail to show the Dynamic Flooding area leader
<i>__readonly__</i>	(Optional)
<i>df-process-tag-out</i>	(Optional)
<i>df-vrf-name-out</i>	(Optional)
TABLE_df_level	(Optional)
<i>df-level-out</i>	(Optional)
<i>df-level-config-out</i>	(Optional)
<i>df-area-leader-cap-out</i>	(Optional)
<i>df-area-leader-level-out</i>	(Optional)
<i>df-algo-name-out</i>	(Optional)
<i>df-algorithm-out</i>	(Optional)
<i>df-priority-out</i>	(Optional)
<i>df-primary-leader-level-out</i>	(Optional)



<i>df-primary-leader-algo-name</i>	(Optional)
<i>df-primary-leader-algo-out</i>	(Optional)
<i>df-primary-leader-priority-out</i>	(Optional)
<i>df-primary-leader-sysid-out</i>	(Optional)
<i>df-secondary-leader-level-out</i>	(Optional)
<i>df-secondary-leader-algo-name-out</i>	(Optional)
<i>df-secondary-leader-algo-out</i>	(Optional)
<i>df-secondary-leader-priority-out</i>	(Optional)
<i>df-secondary-leader-sysid-out</i>	(Optional)
<i>df-reach-matrix-level-out</i>	(Optional)
TABLE_source_info	(Optional)
<i>df-reach-source-id-info</i>	(Optional)
TABLE_neighbor_info	(Optional)
<i>df-reach-neighbor-id-out</i>	(Optional)
<i>df-neighbor-overall-out</i>	(Optional)
<i>df-neighbor-tree1-out</i>	(Optional)
<i>df-neighbor-tree2-out</i>	(Optional)
<i>df-neighbor-interface-id-out</i>	(Optional)
<i>df-neighbor-name-out</i>	(Optional)
TABLE_FT_interface_info	(Optional)
<i>df-ft-interface-name-out</i>	(Optional)
TABLE_Temp_interface_info	(Optional)
<i>df-temp-ft-interface-name-out</i>	(Optional)
TABLE_broadcast_interfaceinfo	(Optional)
<i>df-interface-name-out</i>	(Optional)

**Command Mode**

- /exec

## show isis interface

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ brief | <interface> ] [ level-1
| level-2 ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <vrf-name-out> [ { TABLE_interface [ { <intfb-name-out> <intfb-type-out>
<intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out> <intfb-ckt-type-out> <intfb-mtu-out>
[ { <intf-p2p-metric-lvl-1-out> <intf-p2p-metric-lvl-2-out> <intf-p2p-prio-lvl-1-out> <intf-p2p-prio-lvl-2-out>
<intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> <intf-p2p-adj-count-lvl-2-out>
<intf-p2p-adj-up-count-lvl-2-out> } ] [ { <intf-loopback-metric-lvl-1-out> <intf-loopback-metric-lvl-2-out>
<intf-loopback-prio-lvl-1-out> <intf-loopback-prio-lvl-2-out> <intf-loopback-adj-count-lvl-1-out>
<intf-loopback-adj-up-count-lvl-1-out> <intf-loopback-adj-count-lvl-2-out>
<intf-loopback-adj-up-count-lvl-2-out> } ] [ { <intf-bcast-metric-lvl-1-out> <intf-bcast-metric-lvl-2-out>
<intf-bcast-prio-lvl-1-out> <intf-bcast-prio-lvl-2-out> <intf-bcast-adj-count-lvl-1-out>
<intf-bcast-adj-up-count-lvl-1-out> <intf-bcast-adj-count-lvl-2-out> <intf-bcast-adj-up-count-lvl-2-out> } ]
} ] [ { <intf-name-out> <intf-status-out> } ] [ { <intf-state-out> <intf-internal-state-out> [
<intf-cib-disabled-out> ] [ <intf-cid-invalid-out> } ] [ <intf-admin-group-out> <intf-admin-group-stale-out>
] [ { TABLE_auth [ { <intf-auth-info-out> [ <intf-auth-kchain-out> ] <intf-auth-chk-info-out> } ] } ] [ {
<intf-ix-out> <intf-cid-out> <intf-ckt-type-out> } ] [ { TABLE_bfd [ <intf-bfd-ipv4-state-out> ] [
<intf-bfd-ipv6-state-out> } ] [ <intf-passive-mask-out> ] [ <intf-passive-mask-lvl-out> ] [ <intf-mgrp-set-out>
] [ <intf-mgrp-state-out> ] [ <intf-mgrp-id-out> ] [ <intf-p2p-type-out> ] [ { <intf-p2p-ext-local-cid-out>
<intf-p2p-cid-out> <intf-retx-intv-out> <intf-retx-throttle-out> } ] [ <intf-loopback-type-out> ] [ {
<intf-lsp-intv-out> <intf-mtu-out> [ <intf-hpad-state-out> } ] ] [ [ <intf-p2p-pad-ts-out> ]
<intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out> <intf-p2p-prio-out> <intf-p2p-hello-intv-out>
<intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> [ { TABLE_p2p <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out>
<intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out>
<intf-p2p-lspid-last-lvl-out> } ] ] [ { <intf-bcast-type-out> [ { TABLE_bcast_pad [ { <intf-bcast-lvl-out>
<intf-bcast-pad-ts-out> } ] } ] [ { TABLE_bcast_dis [ { <intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> } ] } ]
] [ { TABLE_bcast_pkt <intf-bcast-lvl-info-out> <intf-bcast-lvl-metric-0-out> <intf-bcast-lvl-metric-2-out>
<intf-bcast-lvl-csnp-intv-out> <intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out>
<intf-bcast-lvl-iih-multi-out> <intf-bcast-lvl-iih-next-out> } ] [ { TABLE_bcast_adj <intf-bcast-lvl-value-out>
<intf-bcast-lvl-adj-out> <intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctid-out>
<intf-bcast-lvl-ctid-ts-out> } ] } ] [ { TABLE_loopback <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out>
} ] [ <intf-unknown-out> } ] } ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
brief	(Optional) Brief display of IS-IS interfaces

interface	Display IS-IS interface information
level-1	(Optional) Display Level-1 interfaces
level-2	(Optional) Display level-2 interfaces
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_interface	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intfb-name-out</i>	(Optional)
<i>intfb-type-out</i>	(Optional)
<i>intfb-ix-out</i>	(Optional)
<i>intfb-state-out</i>	(Optional)
<i>intfb-ready-state-out</i>	(Optional)
<i>intfb-cid-out</i>	(Optional)
<i>intfb-ckt-type-out</i>	(Optional)
<i>intf-p2p-metric-lvl-1-out</i>	(Optional)
<i>intf-p2p-metric-lvl-2-out</i>	(Optional)
<i>intf-p2p-prio-lvl-1-out</i>	(Optional)
<i>intf-p2p-prio-lvl-2-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-2-out</i>	(Optional)

<i>intf-p2p-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-metric-lvl-1-out</i>	(Optional)
<i>intf-loopback-metric-lvl-2-out</i>	(Optional)
<i>intf-loopback-prio-lvl-1-out</i>	(Optional)
<i>intf-loopback-prio-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-metric-lvl-1-out</i>	(Optional)
<i>intf-bcast-metric-lvl-2-out</i>	(Optional)
<i>intf-bcast-prio-lvl-1-out</i>	(Optional)
<i>intf-bcast-prio-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
<i>intf-admin-group-out</i>	(Optional)
<i>intf-admin-group-stale-out</i>	(Optional)
TABLE_auth	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)
TABLE_bfd	(Optional)
<i>intf-bfd-ipv4-state-out</i>	(Optional)

<i>intf-bfd-ipv6-state-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)
<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intfb-mtu-out</i>	(Optional)
<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)
<i>intf-p2p-hello-next-out</i>	(Optional)
TABLE_p2p	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)
<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)

<i>intf-p2p-csnp-nxt-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)
<i>intf-bcast-type-out</i>	(Optional)
TABLE_bcast_pad	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
TABLE_bcast_dis	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
TABLE_bcast_pkt	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-0-out</i>	(Optional)
<i>intf-bcast-lvl-metric-2-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
TABLE_bcast_adj	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)
<i>intf-bcast-lvl-adj-up-out</i>	(Optional)
<i>intf-bcast-lvl-prio-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
TABLE_loopback	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)

## Command Mode

- /exec

## show isis ipv6 redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 redistribute route [ topology { [
base ] | mt-ipv6 } ] [ summary | <ipv6-addr> | <ipv6-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out>
<redist-route-ipv6-vrf> [ <redist-route-ipv6-topo-id> ] [ <redist-route-ipv6-af-ix> ] [ { TABLE_one_route
<redist-route-ipv6-prefix> [ <redist-route-ipv6-mask-len> ] [ <redist-route-ipv6-pib-name> ] [
<redist-route-ipv6-direct-mask> ] [ <redist-route-ipv6-route-type> ] [ { TABLE_redist
<redist-route-ipv6-status> <redist-route-ipv6-level> [ <redist-route-ipv6-metric> ] [
<redist-route-ipv6-sum-addr-prefix> ] [ <redist-route-ipv6-sum-addr-mask-len> ] } } ] [
<redist-route-ipv6-summary-addr-prefix> ] [ <redist-route-ipv6-summary-addr-mask-len> ] [
<redist-route-ipv6-summary-route-total> ] [ { TABLE_protocol <redist-route-ipv6-summary-pib-name> [
<redist-route-ipv6-summary-prot-route-total> ] } ] [ <redist-route-ipv6-summary-pending-total> ] [ {
TABLE_mask_len <redist-route-ipv6-summary-mask-len-ix> [ <redist-route-ipv6-summary-mask-len> ] }
] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ipv6	Display IS-IS IPv6 information
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
__readonly__	(Optional)
TABLE_process_tag	(Optional)



<i>process-tag-out</i>	(Optional)
<i>redist-route-ipv6-vrf</i>	(Optional)
<i>redist-route-ipv6-topo-id</i>	(Optional)
<i>redist-route-ipv6-af-ix</i>	(Optional)
TABLE_one_route	(Optional)
<i>redist-route-ipv6-prefix</i>	(Optional)
<i>redist-route-ipv6-mask-len</i>	(Optional)
<i>redist-route-ipv6-pib-name</i>	(Optional)
<i>redist-route-ipv6-direct-mask</i>	(Optional)
<i>redist-route-ipv6-route-type</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-ipv6-status</i>	(Optional)
<i>redist-route-ipv6-level</i>	(Optional)
<i>redist-route-ipv6-metric</i>	(Optional)
<i>redist-route-ipv6-sum-addr-prefix</i>	(Optional)
<i>redist-route-ipv6-sum-addr-mask-len</i>	(Optional)
<i>redist-route-ipv6-summary-addr-prefix</i>	(Optional)
<i>redist-route-ipv6-summary-addr-mask-len</i>	(Optional)
<i>redist-route-ipv6-summary-route-total</i>	(Optional)
TABLE_protocol	(Optional)
<i>redist-route-ipv6-summary-pib-name</i>	(Optional)
<i>redist-route-ipv6-summary-prot-route-total</i>	(Optional)
<i>redist-route-ipv6-summary-pending-total</i>	(Optional)
TABLE_mask_len	(Optional)
<i>redist-route-ipv6-summary-mask-len-ix</i>	(Optional)
<i>redist-route-ipv6-summary-mask-len</i>	(Optional)

**Command Mode**

- /exec

## show isis ipv6 route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route [ topology { [ base ] |
mt-ipv6 } ] [ summary | detail | private | <ipv6-addr> [ detail | private ] | <ipv6-prefix> [ detail | private |
longer-prefixes [ summary | detail | private ] ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <topo-id-out> ] <afi-safi-out> [
TABLE_prefix [ <route-prefix-out> <route-mask-len-out> <route-level-out> ] [ <route-sum-discard-addr-out>
<route-sum-discard-mask-len-out> ] [ <route-discard-addr-out> <route-discard-mask-len-out> ] [
<route-addr-print-out> <route-mask-len-print-out> <route-direct-print-out> ] [ TABLE_direct_path [
<route-direct-out> <route-direct-via-out> <route-direct-if-name-out> <route-direct-metric-out>
<route-direct-level-out> ] [ <route-direct-instance-out> ] ] [ TABLE_best_path [ <route-no-def-prefix-out>
] [ <route-def-prefix-out> ] <route-addr-valid-out> <route-marker-out> <route-ifname-out> <route-metric-out>
<route-pref-out> [ <route-instance-out> ] ] [ <route-discard-mask-out> ] [ [ <route-sum-prefix-out>
<route-sum-prefix-len-out> ] <route-total-out> <route-paths-total-out> <route-paths-best-out>
<route-paths-backup-out> [ TABLE_sum_best_route <route-sum-lvl-out> <route-sum-total-out> [
<route-sum-direct-out> ] [ <route-sum-normal-out> ] [ <route-sum-missing-out> ] ] [
<route-best-pend-num-out> ] <route-bestpaths-out> [ TABLE_sum_best_path <route-path-sum-lvl-out>
<route-path-sum-total-out> [ <route-path-sum-direct-out> ] [ <route-path-sum-normal-out> ] ]
<route-backuppaths-out> [ TABLE_sum_backup_path <backup-path-sum-lvl-out> <backup-path-sum-total-out>
[ <backup-path-sum-direct-out> ] [ <backup-path-sum-normal-out> ] ] ] <route-bestroutes-per-mask-out> [
TABLE_best_mask <route-best-mask-val-out> <route-best-mask-count-out> ] [ <route-pend-q-count-out> ]
] ] ] ] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
route	Display IS-IS route information
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts

detail	(Optional) Display detail route information
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>topo-id-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
TABLE_prefix	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
TABLE_direct_path	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
TABLE_best_path	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)

<i>route-def-prefix-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)
<i>route-marker-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)
<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
TABLE_sum_best_route	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
TABLE_sum_best_path	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
TABLE_sum_backup_path	(Optional)

<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)
<i>backup-path-sum-direct-out</i>	(Optional)
<i>backup-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
TABLE_best_mask	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

**Command Mode**

- /exec

## show isis ipv6 summary-address

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 summary-address [ <ipv6-addr>
| <ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrf-name-out> <tag-out> <afi-safi-out> [ <addr-absent-out> ] [ { TABLE_addr <sum-prefix-out>
<mask-len-out> <level-out> [ { TABLE_lvl <addr-lvl-out> <addr-num-out> [ <addr-metric-absent-out> ] [
<addr-metric-out> ] [ <addr-route-count-out> } } ] ] ] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
summary-address	Display IS-IS summary address
longer-prefixes	(Optional) Display exact match and more specific summary address
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>addr-absent-out</i>	(Optional)
TABLE_addr	(Optional)
<i>sum-prefix-out</i>	(Optional)
<i>mask-len-out</i>	(Optional)
<i>level-out</i>	(Optional)
TABLE_lvl	(Optional)
<i>addr-lvl-out</i>	(Optional)
<i>addr-num-out</i>	(Optional)

<i>addr-metric-absent-out</i>	(Optional)
<i>addr-metric-out</i>	(Optional)
<i>addr-route-count-out</i>	(Optional)

**Command Mode**

- /exec

# show isis lslib

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] lslib [ cache [ nodes | links | prefixes
| node <s0> | link <s1> | prefix <s2> | links-of-node <s3> | prefixes-of-node <s4> ] [ detail ] ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ]
```

## Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
lslib	LSLIB client information
cache	(Optional) Link-state cache in LSLIB
nodes	(Optional) All Node objects
links	(Optional) All Link objects
prefixes	(Optional) All Prefix objects
node	(Optional) One node object information
<i>s0</i>	(Optional) Node information
link	(Optional) One link object information
<i>s1</i>	(Optional) Link information
prefix	(Optional) One prefix object information
<i>s2</i>	(Optional) Prefix information
links-of-node	(Optional) All links information of a node
<i>s3</i>	(Optional) Node information
prefixes-of-node	(Optional) All prefixes information of a node
<i>s4</i>	(Optional) Node information
detail	(Optional) Detailed info
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

## Command Mode



- /exec

## show isis mesh-group

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] mesh-group [ <mesh-id> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <tag-out> [
<mesh-id-set-out> ] [ <mesh-id-invalid-out> ] [ <mesh-id-none-out> ] [ { TABLE_meshid <mesh-set-id-out>
[ { TABLE_if <mesh-id-intf-name-out> } } ] ] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mesh-group	Display IS-IS mesh-groups
<i>mesh-id</i>	(Optional) Display a single mesh-group
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-invalid-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)
TABLE_meshid	(Optional)
<i>mesh-set-id-out</i>	(Optional)
TABLE_if	(Optional)
<i>mesh-id-intf-name-out</i>	(Optional)

### Command Mode

- /exec

## show isis redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] redistribute route [ summary |
<ip-addr> | <ip-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-route-vrf> [ <redist-route-af-ix> ] [
{ TABLE_one_route <redist-route-prefix> [ <redist-route-mask-len> ] [ <redist-route-pib-name> ] [
<redist-route-direct-mask> ] [ <redist-route-route-type> ] [ { TABLE_redist <redist-route-status>
<redist-route-level> [ <redist-route-metric> ] [ <redist-route-sum-addr-prefix> ] [
<redist-route-sum-addr-mask-len> ] } ] [ <redist-route-summary-addr-prefix> ] [
<redist-route-summary-addr-mask-len> ] [ <redist-route-summary-route-total> ] [ { TABLE_protocol
<redist-route-summary-pib-name> [ <redist-route-summary-prot-route-total> ] } ] [
<redist-route-summary-pending-total> ] [ { TABLE_mask_len <redist-route-summary-mask-len-ix> [
<redist-route-summary-mask-len> ] } ] ] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	(Optional) Display IS-IS IPv4 information
<i>ip-addr</i>	(Optional) Display single IP redistribute route
<i>ip-prefix</i>	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-route-vrf</i>	(Optional)

<i>redist-route-af-ix</i>	(Optional)
TABLE_one_route	(Optional)
<i>redist-route-prefix</i>	(Optional)
<i>redist-route-mask-len</i>	(Optional)
<i>redist-route-pib-name</i>	(Optional)
<i>redist-route-direct-mask</i>	(Optional)
<i>redist-route-route-type</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-status</i>	(Optional)
<i>redist-route-level</i>	(Optional)
<i>redist-route-metric</i>	(Optional)
<i>redist-route-sum-addr-prefix</i>	(Optional)
<i>redist-route-sum-addr-mask-len</i>	(Optional)
<i>redist-route-summary-addr-prefix</i>	(Optional)
<i>redist-route-summary-addr-mask-len</i>	(Optional)
<i>redist-route-summary-route-total</i>	(Optional)
TABLE_protocol	(Optional)
<i>redist-route-summary-pib-name</i>	(Optional)
<i>redist-route-summary-prot-route-total</i>	(Optional)
<i>redist-route-summary-pending-total</i>	(Optional)
TABLE_mask_len	(Optional)
<i>redist-route-summary-mask-len-ix</i>	(Optional)
<i>redist-route-summary-mask-len</i>	(Optional)

### Command Mode

- /exec

## show isis route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route [ summary | detail | private
| <ip-addr> [ detail | private ] | <ip-prefix> [ detail | private | longer-prefixes [ summary | detail | private ] ] ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> {
TABLE_vrf <vrf-name-out> <afi-safi-out> [ TABLE_prefix [ <route-prefix-out> <route-mask-len-out>
<route-level-out> ] [ <route-summ-discard-addr-out> <route-summ-discard-mask-len-out> ] [
<route-discard-addr-out> <route-discard-mask-len-out> ] [ <route-addr-print-out> <route-mask-len-print-out>
<route-direct-print-out> ] [ TABLE_direct_path [ <route-direct-out> <route-direct-via-out>
<route-direct-if-name-out> <route-direct-metric-out> <route-direct-level-out> ] [ <route-direct-instance-out>
] ] [ TABLE_best_path [ <route-no-def-prefix-out> ] [ <route-def-prefix-out> ] <route-addr-valid-out>
<route-marker-out> <route-ifname-out> <route-metric-out> <route-pref-out> [ <route-instance-out> ] ] [
<route-discard-mask-out> ] [ [ <route-sum-prefix-out> <route-sum-prefix-len-out> ] <route-total-out>
<route-paths-total-out> <route-paths-best-out> <route-paths-backup-out> [ TABLE_sum_best_route
<route-sum-lvl-out> <route-sum-total-out> [ <route-sum-direct-out> ] [ <route-sum-normal-out> ] [
<route-sum-missing-out> ] ] [ <route-best-pend-num-out> ] <route-bestpaths-out> [ TABLE_sum_best_path
<route-path-sum-lvl-out> <route-path-sum-total-out> [ <route-path-sum-direct-out> ] [
<route-path-sum-normal-out> ] ] <route-backuppaths-out> [ TABLE_sum_backup_path
<backup-path-sum-lvl-out> <backup-path-sum-total-out> [ <backup-path-sum-direct-out> ] [
<backup-path-sum-normal-out> ] ] <route-bestroutes-per-mask-out> [ TABLE_best_mask
<route-best-mask-val-out> <route-best-mask-count-out> ] [ <route-pend-q-count-out> ] ] ] ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route	Display IS-IS route information
<i>ip-addr</i>	(Optional) Display single IP route
<i>ip-prefix</i>	(Optional) Display single exact match IP route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

<code>__readonly__</code>	(Optional)
<code>TABLE_process_tag</code>	(Optional)
<code>process-tag-out</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>vrf-name-out</code>	(Optional)
<code>afi-safi-out</code>	(Optional)
<code>TABLE_prefix</code>	(Optional)
<code>route-prefix-out</code>	(Optional)
<code>route-mask-len-out</code>	(Optional)
<code>route-level-out</code>	(Optional)
<code>route-summ-discard-addr-out</code>	(Optional)
<code>route-summ-discard-mask-len-out</code>	(Optional)
<code>route-discard-addr-out</code>	(Optional)
<code>route-discard-mask-len-out</code>	(Optional)
<code>route-addr-print-out</code>	(Optional)
<code>route-mask-len-print-out</code>	(Optional)
<code>route-direct-print-out</code>	(Optional)
<code>TABLE_direct_path</code>	(Optional)
<code>route-direct-out</code>	(Optional)
<code>route-direct-via-out</code>	(Optional)
<code>route-direct-if-name-out</code>	(Optional)
<code>route-direct-metric-out</code>	(Optional)
<code>route-direct-level-out</code>	(Optional)
<code>route-direct-instance-out</code>	(Optional)
<code>TABLE_best_path</code>	(Optional)
<code>route-no-def-prefix-out</code>	(Optional)
<code>route-def-prefix-out</code>	(Optional)
<code>route-addr-valid-out</code>	(Optional)
<code>route-marker-out</code>	(Optional)

<i>route-ifname-out</i>	(Optional)
<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
TABLE_sum_best_route	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
TABLE_sum_best_path	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
TABLE_sum_backup_path	(Optional)
<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)
<i>backup-path-sum-direct-out</i>	(Optional)

<i>backup-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
TABLE_best_mask	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

**Command Mode**

- /exec



## show isis rrm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] rrm <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <rrm-if-name> [ { TABLE_rrm <rrm-level> <rrm-retx-interval> <rrm-retx-throttle-interval> <rrm-retx-queue-length> <rrm-next-retx> <rrm-retx-queue-hwm> <rrm-retx-queue-limit> <rrm-retx-queue-exceed> <rrm-dbase-hdr> [ <rrm-timestamp> ] [ <rrm-lsp-retx-instance> ] [ <rrm-lsp-db-instance> ] [ <rrm-rrm-set> ] [ <rrm-srm-set> ] } ] } ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
rrm	Display IS-IS Retransmit-Routing-Message information
<i>interface</i>	IS-IS interface
<code>__readonly__</code>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>rrm-if-name</i>	(Optional)
TABLE_rrm	(Optional)
<i>rrm-level</i>	(Optional)
<i>rrm-retx-interval</i>	(Optional)
<i>rrm-retx-throttle-interval</i>	(Optional)
<i>rrm-retx-queue-length</i>	(Optional)
<i>rrm-next-retx</i>	(Optional)
<i>rrm-retx-queue-hwm</i>	(Optional)
<i>rrm-retx-queue-limit</i>	(Optional)
<i>rrm-retx-queue-exceed</i>	(Optional)

<i>rrm-dbase-hdr</i>	(Optional)
<i>rrm-timestamp</i>	(Optional)
<i>rrm-lsp-retx-instance</i>	(Optional)
<i>rrm-lsp-db-instance</i>	(Optional)
<i>rrm-rrm-set</i>	(Optional)
<i>rrm-srm-set</i>	(Optional)

**Command Mode**

- /exec

## show isis segment-routing mapcache

```
show isis [ <isis-tag> ] segment-routing mapcache [ level-1 | level-2 ] [ <ipv4-prefix> ] [ sid <sr-sid> ] [ vrf
{ <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> {
TABLE_vrf <vrf-name-out> <srmap-v4-state> <srmap-v6-state> [ { TABLE_srmap_level <srmap-level> [
{ TABLE_srmap_pfxsid <srmap-pfxsid> <srmap-lsp-id> <srmap-pfxsid-valid> <srmap-pfxsid-flags>
<srmap-prefix> } ] } ] } ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
mapcache	prefix-sid mappings
level-1	(Optional) show information for level 1 only
level-2	(Optional) show information for level 2 only
<i>ipv4-prefix</i>	(Optional) Display single exact match IP route
sid	(Optional) show information for this SR SID value
<i>sr-sid</i>	(Optional) SR SID value
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>srmap-v4-state</i>	(Optional)
<i>srmap-v6-state</i>	(Optional)
TABLE_srmap_level	(Optional)
<i>srmap-level</i>	(Optional)

TABLE_srmap_pfxsid	(Optional)
<i>srmap-pfxsid</i>	(Optional)
<i>srmap-lsp-id</i>	(Optional)
<i>srmap-pfxsid-valid</i>	(Optional)
<i>srmap-pfxsid-flags</i>	(Optional)
<i>srmap-prefix</i>	(Optional)

**Command Mode**

- /exec

## show isis segment-routing remote-srgb

```
show isis [ <isis-tag> ] segment-routing remote-srgb [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <sr-v4-state>
<sr-v6-state> [ { TABLE_srgb_lsp <srgb-level> <srgb-lspid> <srgb-num-entries> <srgb-flags> [ {
TABLE_srgb_label <srgb-start-label> <srgb-range> } ] } ] } ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
remote-srgb	remote SR ranges
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>sr-v4-state</i>	(Optional)
<i>sr-v6-state</i>	(Optional)
TABLE_srgb_lsp	(Optional)
<i>srgb-level</i>	(Optional)
<i>srgb-lspid</i>	(Optional)
<i>srgb-num-entries</i>	(Optional)
<i>srgb-flags</i>	(Optional)
TABLE_srgb_label	(Optional)
<i>srgb-start-label</i>	(Optional)

<i>srgb-range</i>	(Optional)
-------------------	------------

**Command Mode**

- /exec

# show isis segment-routing sids

```
show isis [ <isis-tag> ] segment-routing sids [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> <vrf-name-out> [ { TABLE_sr_sids <sr-sid> [ <sr-prefix> ] [
<sr-local-flag> ] [ <sr-conflict-flag> ] } } ] ]
```

## Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
sids	sid database
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_sr_sids	(Optional)
<i>sr-sid</i>	(Optional)
<i>sr-prefix</i>	(Optional)
<i>sr-local-flag</i>	(Optional)
<i>sr-conflict-flag</i>	(Optional)

## Command Mode

- /exec

# show isis spf-log

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ detail ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ { TABLE_process_tag [ <process-tag-out> ] [ <vrf-name-out>
] [ { TABLE_topo [ <topo-id-out> ] [ <spflog-calc-out> ] [ <spflog-size-out> ] [ <spflog-maxsize-out> ] [ {
TABLE_log_detail [ <num-out> ] [ <ts-out> ] [ <date-out> ] [ { TABLE_lvl_detail [ <lvld-out> ] [
<instance-out> ] [ <init-ts-out> ] [ <ts-lvl-out> ] } ] [ <ts-is-out> ] [ <ts-urib-out> ] [ <ts-elapsed-out> ] [ {
TABLE_lvl_second [ <lvls-out> ] [ <spf-node-out> ] [ <spf-cnt-out> ] [ <changed-cnt-out> ] [ <spf-reason-out>
] } } ] [ { TABLE_log_brief [ <ago-time-out> ] [ { TABLE_lvl [ <lvl-out> ] [ <reason-out> ] [ <count-out>
] } ] [ <elapsed-ts-out> ] } } } ] ] ]
```

## Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_topo	(Optional)
<i>topo-id-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
TABLE_log_detail	(Optional)
<i>num-out</i>	(Optional)
<i>ts-out</i>	(Optional)



<i>date-out</i>	(Optional)
TABLE_lvl_detail	(Optional)
<i>lvld-out</i>	(Optional)
<i>instance-out</i>	(Optional)
<i>init-ts-out</i>	(Optional)
<i>ts-lvl-out</i>	(Optional)
<i>ts-is-out</i>	(Optional)
<i>ts-urib-out</i>	(Optional)
<i>ts-elapsed-out</i>	(Optional)
TABLE_lvl_second	(Optional)
<i>lvls-out</i>	(Optional)
<i>spf-node-out</i>	(Optional)
<i>spf-cnt-out</i>	(Optional)
<i>changed-cnt-out</i>	(Optional)
<i>spf-reason-out</i>	(Optional)
TABLE_log_brief	(Optional)
<i>ago-time-out</i>	(Optional)
TABLE_lvl	(Optional)
<i>lvl-out</i>	(Optional)
<i>reason-out</i>	(Optional)
<i>count-out</i>	(Optional)
<i>elapsed-ts-out</i>	(Optional)

**Command Mode**

- /exec

## show isis srm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] srm <interface> [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <srm-if-name> [ {
TABLE_srm <srm-level> <srm-if-eligible> <srm-if-not-on-srm-list> <srm-lsp-interval> <srm-next-lsp>
<srm-dbase-hdr> } } ] ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
srm	Display IS-IS Send-Routing-Message information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>srm-if-name</i>	(Optional)
TABLE_srm	(Optional)
<i>srm-level</i>	(Optional)
<i>srm-if-eligible</i>	(Optional)
<i>srm-if-not-on-srm-list</i>	(Optional)
<i>srm-lsp-interval</i>	(Optional)
<i>srm-next-lsp</i>	(Optional)
<i>srm-dbase-hdr</i>	(Optional)

### Command Mode

- /exec

## show isis ssn

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ssn <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <snn-if-name> [ { TABLE_ssn <snn-level> <snn-psnp-eligible> <snn-next-psnp> <snn-dbase_hdr> } ] } ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ssn	Display IS-IS Send-Sequence-Number information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>snn-if-name</i>	(Optional)
TABLE_ssn	(Optional)
<i>snn-level</i>	(Optional)
<i>snn-psnp-eligible</i>	(Optional)
<i>snn-next-psnp</i>	(Optional)
<i>snn-dbase_hdr</i>	(Optional)

### Command Mode

- /exec

# show isis statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ { TABLE_interface_set [ <stat-if-out> ] [
<process-tag-out> ] [ <vrf-name-out> ] [ <stat-if-name-out> ] [ <stat-spf-calc-out> ] [ <stat-lsp-sourced-out>
] [ <stat-lsp-refresh-out> ] [ <stat-lsp-purge-out> ] [ <stat-dis-elections-out> } ] ] ]
```

## Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Display IS-IS protocol statistics
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_interface_set	(Optional)
<i>stat-if-out</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>stat-if-name-out</i>	(Optional)
<i>stat-spf-calc-out</i>	(Optional)
<i>stat-lsp-sourced-out</i>	(Optional)
<i>stat-lsp-refresh-out</i>	(Optional)
<i>stat-lsp-purge-out</i>	(Optional)
<i>stat-dis-elections-out</i>	(Optional)

## Command Mode

- /exec

# show isis summary-address

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] summary-address [ <ip-addr> | <ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <tag-out> <afi-safi-out> [ <addr-absent-out> ] [ { TABLE_addr <sum-prefix-out> <mask-len-out> <level-out> [ { TABLE_lvl <addr-lvl-out> <addr-num-out> [ <addr-metric-absent-out> ] [ <addr-metric-out> ] [ <addr-route-count-out> } ] } ] ] ]
```

## Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
summary-address	Display IS-IS summary address
<i>ip-addr</i>	(Optional) Display single IP summary address
<i>ip-prefix</i>	(Optional) Display single exact match IP summary address
longer-prefixes	(Optional) Display exact match and more specific summary address
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>addr-absent-out</i>	(Optional)
TABLE_addr	(Optional)
<i>sum-prefix-out</i>	(Optional)
<i>mask-len-out</i>	(Optional)
<i>level-out</i>	(Optional)
TABLE_lvl	(Optional)

<i>addr-lvl-out</i>	(Optional)
<i>addr-num-out</i>	(Optional)
<i>addr-metric-absent-out</i>	(Optional)
<i>addr-metric-out</i>	(Optional)
<i>addr-route-count-out</i>	(Optional)

**Command Mode**

- /exec

## show isis topology

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] topology [ base | mt-ipv6 ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <topology-vrf>
<topo-id-out> [ { TABLE_LEVEL <topology-level> [ { TABLE_ONE_ROUTE
<topology-one-route-node-name> [ <topology-one-route-spf-instance> ] [ <topology-one-route-on-path> ] [
<topology-one-route-mt-id> ] [ { TABLE_ONE_ROUTE_NH <topology-one-route-nh-system-name> [
<topology-one-route-nh-if-name> ] [ <topology-one-route-nh-metric> ] } ] [ { TABLE_ONE_ROUTE_MBEST
<topology-one-route-mbest-system-name> [ <topology-one-route-mbest-if-name> ] [
<topology-one-route-mbest-metric> ] } ] } ] [ <topology-default-spf-instance> ] [ { TABLE_NH
<topology-nh-system-name> [ <topology-nh-if-name> ] [ <topology-nh-metric> ] } ] [ { TABLE_MBEST
<topology-mbest-system-name> [ <topology-mbest-if-name> ] [ <topology-mbest-metric> ] } ] } ] }
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
topology	Display IS-IS Topology information
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>topology-vrf</i>	(Optional)
<i>topo-id-out</i>	(Optional)
TABLE_LEVEL	(Optional)
<i>topology-level</i>	(Optional)
TABLE_ONE_ROUTE	(Optional)
<i>topology-one-route-node-name</i>	(Optional)
<i>topology-one-route-spf-instance</i>	(Optional)

<i>topology-one-route-on-path</i>	(Optional)
<i>topology-one-route-mt-id</i>	(Optional)
TABLE_ONE_ROUTE_NH	(Optional)
<i>topology-one-route-nh-system-name</i>	(Optional)
<i>topology-one-route-nh-if-name</i>	(Optional)
<i>topology-one-route-nh-metric</i>	(Optional)
TABLE_ONE_ROUTE_MBEST	(Optional)
<i>topology-one-route-mbest-system-name</i>	(Optional)
<i>topology-one-route-mbest-if-name</i>	(Optional)
<i>topology-one-route-mbest-metric</i>	(Optional)
<i>topology-default-spf-instance</i>	(Optional)
TABLE_NH	(Optional)
<i>topology-nh-system-name</i>	(Optional)
<i>topology-nh-if-name</i>	(Optional)
<i>topology-nh-metric</i>	(Optional)
TABLE_MBEST	(Optional)
<i>topology-mbest-system-name</i>	(Optional)
<i>topology-mbest-if-name</i>	(Optional)
<i>topology-mbest-metric</i>	(Optional)

**Command Mode**

- /exec



## show isis traffic

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ mbuf-priority
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out>
{ TABLE_vrf <vrf-name-out> <traffic-if-out> [ <traffic-if-name-out> ] <traffic-lan-iih-out>
<traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out> <traffic-lan-iih-rcv-auth-err-out> <traffic-lan-iih-rcv-err-out>
<traffic-p2p-iih-out> <traffic-p2p-iih-rcv-out> <traffic-p2p-iih-xmit-out> <traffic-p2p-iih-rcv-auth-err-out>
<traffic-p2p-iih-rcv-err-out> <traffic-csnp-out> <traffic-csnp-rcv-out> <traffic-csnp-xmit-out>
<traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-psnp-out> <traffic-psnp-rcv-out>
<traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out> <traffic-psnp-rcv-err-out> <traffic-lsp-out>
<traffic-lsp-rcv-out> <traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out>
<traffic-lsp-rexmit-out> [ <traffic-xmit-err-out> ] [ <traffic-unknown-pdu-rcv-out> } } ]
```

### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Display IS-IS traffic information
<i>interface</i>	(Optional) IS-IS interface
mbuf-priority	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>traffic-if-out</i>	(Optional)
<i>traffic-if-name-out</i>	(Optional)
<i>traffic-lan-iih-out</i>	(Optional)
<i>traffic-lan-iih-rcv-out</i>	(Optional)
<i>traffic-lan-iih-xmit-out</i>	(Optional)

<i>traffic-lan-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-lan-iih-rcv-err-out</i>	(Optional)
<i>traffic-p2p-iih-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-out</i>	(Optional)
<i>traffic-p2p-iih-xmit-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-err-out</i>	(Optional)
<i>traffic-csnp-out</i>	(Optional)
<i>traffic-csnp-rcv-out</i>	(Optional)
<i>traffic-csnp-xmit-out</i>	(Optional)
<i>traffic-csnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-csnp-rcv-err-out</i>	(Optional)
<i>traffic-psnp-out</i>	(Optional)
<i>traffic-psnp-rcv-out</i>	(Optional)
<i>traffic-psnp-xmit-out</i>	(Optional)
<i>traffic-psnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-psnp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-out</i>	(Optional)
<i>traffic-lsp-rcv-out</i>	(Optional)
<i>traffic-lsp-flood-out</i>	(Optional)
<i>traffic-lsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-lsp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-rexmit-out</i>	(Optional)
<i>traffic-xmit-err-out</i>	(Optional)
<i>traffic-unknown-pdu-rcv-out</i>	(Optional)

### Command Mode

- /exec

## show itd

```
show itd [<svc-name> ][ brief ][ __readonly__ <is_detail> [ TABLE_summary <is_active> <service_name>
<is_include_acl> <probe> <lb_scheme> <state> <buckets> [ <interface_num> ][ <interface> ][
TABLE_interface <interface_grp> ][ <reason> ][ <src_interface> ][ <vrf_name> ][ <excludeACL> ][
<peer_status> ][ TABLE_device <device_grp> <dg_probe> <dg_probe_port> ][ <is_firstentry_routemap>
][ TABLE_route_map [ <route_map> ][ TABLE_rmap_interface [ <r_interface> ][ <r_status> ][
<int_track_id> ] ] ][ TABLE_vip [ <vip_acl_key> ][ <vip_probe> ][ <vip_port> ][ <ace_buckets> ][
<vip_dgname> ][ <is_firstentry_vip_node> ][ TABLE_vip_node <is_vip_node_ipv6> <vip_node>
<vip_config> <vip_weight> <vip_node_probe> <vip_node_probe_port> <vip_node_probe_ip> <vip_status>
<vip_track_id> <vip_ip_sla_id> [ <is_firstentry_standby> ][ TABLE_vip_standby
<is_standby_vip_node_ipv6> <vip_standby_ip> <vip_standby_config> <vip_standby_weight>
<vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip> <vip_standby_status>
<vip_standby_track_id> <vip_standby_sla_id> ][ <is_firstentry_acl> ][ TABLE_vip_acl [ <vip_access_list>
] ] ] ][ <is_firstentry> ][ TABLE_node <is_node_ipv6> <node> <config> <weight> <node_probe>
<node_probe_port> <node_probe_ip> <status> <track_id> <ip_sla_id> [ <is_first_def_stdby> ][
TABLE_standby <is_standby_node_ipv6> <standby_ip> <standby_config> <standby_weight>
<standby_probe> <standby_probe_port> <standby_probe_ip> <standby_status> <standby_track_id>
<standby_sla_id> ][ <is_first_defdg_acl> ][ TABLE_acl [ <access_list> ] ] ] ][ <is_lastentry> ] ]
```

### Syntax Description

show	Show running system information
itd	ITD service
<i>svc-name</i>	(Optional) ITD service name
brief	(Optional) brief
<i>__readonly__</i>	(Optional) Read Only
<i>is_firstentry</i>	(Optional) First entry
<i>is_firstentry_vip_node</i>	(Optional) First VIP node entry
<i>is_detail</i>	(Optional) In detail
<i>is_active</i>	(Optional) Is active
<i>is_firstentry_routemap</i>	(Optional) Is first route-map entry
<i>is_firstentry_acl</i>	(Optional) Is first acl entry
<i>is_firstentry_standby</i>	(Optional) Is first standby entry
<i>is_include_acl</i>	(Optional) Is include acl
<i>is_first_defdg_acl</i>	(Optional) Is first default dg acl
TABLE_summary	(Optional)
<i>service_name</i>	(Optional) service_name

<i>probe</i>	(Optional) probe
<i>lb_scheme</i>	(Optional) lb scheme
<i>interface_num</i>	(Optional) Number of ingress interfaces
<i>interface</i>	(Optional) interface
TABLE_interface	(Optional)
<i>interface_grp</i>	(Optional) interface_grp
<i>src_interface</i>	(Optional) source interface for probe
<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>excludeACL</i>	(Optional) exclude access-list
<i>peer_status</i>	(Optional) peer status
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
TABLE_rmap_interface	(Optional)
<i>r_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_acl_key</i>	(Optional) vip ip or acl name
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
<i>ace_buckets</i>	(Optional) ace active buckets

TABLE_vip_node	(Optional)
<i>is_vip_node_ipv6</i>	(Optional) is node ipv6
<i>vip_node</i>	(Optional) service node ip
<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>is_standby_vip_node_ipv6</i>	(Optional) is standby node ipv6
<i>vip_standby_ip</i>	(Optional) standby node ip
<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>is_node_ipv6</i>	(Optional) is node ipv6
<i>node</i>	(Optional) service node ip
<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
<i>is_first_def_stdby</i>	(Optional) first default dg standby
TABLE_standby	(Optional)
<i>is_standby_node_ipv6</i>	(Optional) is standby node ipv6
<i>standby_ip</i>	(Optional) standby node ip
<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
<i>is_lastentry</i>	(Optional) last entry

### Command Mode

- /exec

## show itd session device-group

```
show itd session device-group [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <node> ] ]
```

### Syntax Description

show	Show running system information
itd	ITD service
session	ITD service session
device-group	ITD service session device-group
<i>name</i>	(Optional) ITD Service session name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>node</i>	(Optional) node

### Command Mode

- /exec

## show itd statistics

```
show itd { <svc-name> | all } [ { src { <src-ip> | <src-IPv6> } } | { dst { <dst-ip> | <dst-IPv6> } } ] statistics
[ brief ] [ __readonly__ [ TABLE_nice [ <is_for_ace> ] <service_name> <dev_grp> [ <vip> ] [ <ace_seq> ]
[ <ace_ip> ] <vip_pkt> <percentage> [ TABLE_node <node_num> [ TABLE_bucket <bucket_acl> <node>
<mode> <orig_node> <acl_pkt> <bucket_per> ] ] ] ]
```

### Syntax Description

show	Show running system information
__readonly__	(Optional) Read Only
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
<i>svc-name</i>	ITD service name
all	All ITD services
src	(Optional) Statistics for src ip
<i>src-ip</i>	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
<i>dst-ip</i>	(Optional) Provide statistics for dst ip
TABLE_nice	(Optional)
<i>is_for_ace</i>	(Optional)
<i>service_name</i>	(Optional) ITD service name
<i>dev_grp</i>	(Optional) device group
<i>vip</i>	(Optional) service virtual ip
<i>ace_seq</i>	(Optional) service ACE name and sequence number
<i>ace_ip</i>	(Optional) service ACE ip/mask/prefix
<i>vip_pkt</i>	(Optional) virtual ip pkt_count
<i>percentage</i>	(Optional) Packet percentage
TABLE_node	(Optional)
<i>node_num</i>	(Optional) Node number
TABLE_bucket	(Optional)



<i>bucket_acl</i>	(Optional) access list
<i>node</i>	(Optional) service node ip
<i>mode</i>	(Optional) Redirect mode
<i>orig_node</i>	(Optional) original node ip
<i>acl_pkt</i>	(Optional) acl pkt count
<i>bucket_per</i>	(Optional) Packet percentage

**Command Mode**

- /exec

## show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

### Syntax Description

show	Show running system information
itd	ITD service
vrf	ITD service vrf
<i>name</i>	(Optional) ITD Service VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>service_name</i>	(Optional) itd service name
<i>vrf_name</i>	(Optional) vrf name
<i>vrf_id</i>	(Optional) vrf id

### Command Mode

- /exec



## K Show Commands

---

- [show key chain, on page 1442](#)
- [show key chain mode decrypt, on page 1443](#)
- [show keystore, on page 1444](#)
- [show kim inconsistency, on page 1445](#)
- [show kubernetes containers, on page 1446](#)

# show key chain

```
{ show key chain [ <keychain> ] } [ __readonly__ TABLE_keychain <chain_name> { TABLE_key [ <key_id> ] [ <key_string> ] [ <crypto_algo> ] [ <accept_utc_zone> ] [ <accept_start> ] [ <accept_end> ] [ <accept_valid> ] [ <send_utc_zone> ] [ <send_start> ] [ <send_end> ] [ <send_valid> ] } }
```

## Syntax Description

show	Show running system information
key	Display Key Information
chain	Display Keychain Information
<i>keychain</i>	(Optional) Keychain name
<i>__readonly__</i>	(Optional)
TABLE_keychain	(Optional)
TABLE_key	(Optional)
<i>chain_name</i>	(Optional)
<i>key_id</i>	(Optional)
<i>key_string</i>	(Optional)
<i>crypto_algo</i>	(Optional)
<i>accept_utc_zone</i>	(Optional)
<i>accept_start</i>	(Optional)
<i>accept_end</i>	(Optional)
<i>accept_valid</i>	(Optional)
<i>send_utc_zone</i>	(Optional)
<i>send_start</i>	(Optional)
<i>send_end</i>	(Optional)
<i>send_valid</i>	(Optional)

## Command Mode

- /exec

## show key chain mode decrypt

```
{ show key chain [ <keychain> ] mode decrypt } [ __readonly__ TABLE_keychain_decrypt <chain_name>
{ TABLE_key [ <key_id> ] [ <key_string> ] [ <crypto_algo> ] [ <accept_utc_zone> ] [ <accept_start> ] [
<accept_end> ] [ <accept_valid> ] [ <send_utc_zone> ] [ <send_start> ] [ <send_end> ] [ <send_valid> ] } }
```

### Syntax Description

show	Show running system information
key	Display Key Information
chain	Display Keychain Information
<i>keychain</i>	(Optional) Keychain name
mode	Mode of display
decrypt	Display Decrypted Keystings
<i>__readonly__</i>	(Optional)
<i>TABLE_keychain_decrypt</i>	(Optional)
<i>TABLE_key</i>	(Optional)
<i>chain_name</i>	(Optional)
<i>key_id</i>	(Optional)
<i>key_string</i>	(Optional)
<i>crypto_algo</i>	(Optional)
<i>accept_utc_zone</i>	(Optional)
<i>accept_start</i>	(Optional)
<i>accept_end</i>	(Optional)
<i>accept_valid</i>	(Optional)
<i>send_utc_zone</i>	(Optional)
<i>send_start</i>	(Optional)
<i>send_end</i>	(Optional)
<i>send_valid</i>	(Optional)

### Command Mode

- /exec

# show keystore

```
show keystore [ __readonly__ { TABLE_sksd_state_entries <index> <handle> } <keystore_type>
<keystore_ver> <fw_panic> <fw_resets> <rx_fifo_underruns> <rx_timeouts> <rx_bad_checksums>
<rx_bad_fragment_lengths> <keystore_corruption> ]
```

## Syntax Description

keystore	keystore stats
<i>__readonly__</i>	(Optional)
TABLE_sksd_state_entries	(Optional) Displays handles of the keys stored
<i>index</i>	(Optional) Index value
<i>handle</i>	(Optional) Handle Name
<i>keystore_type</i>	(Optional) Type of storage h/w or s/w
<i>keystore_ver</i>	(Optional) Version
<i>fw_panic</i>	(Optional) Number of panics
<i>fw_resets</i>	(Optional) Number of Resets
<i>rx_fifo_underruns</i>	(Optional) Rx FIFO Underruns
<i>rx_timeouts</i>	(Optional) Number of Rx timeouts
<i>rx_bad_checksums</i>	(Optional) Number of Bad Checsums
<i>rx_bad_fragment_lengths</i>	(Optional) Bad fragment lenghts received
<i>keystore_corruption</i>	(Optional) Number of corruptions detected

## Command Mode

- /exec

# show kim inconsistency

show kim inconsistency

## Syntax Description

show	Show running system information
kim	Display KIM information
inconsistency	KIM inconsistency

## Command Mode

- /exec

# show kubernetes containers

show kubernetes containers [ brief | interface <if\_name> ]

## Syntax Description

show	Show running system information
kubernetes	Show kubernetes
containers	containers
brief	(Optional) Show brief information
interface	(Optional) Interface name
<i>if_name</i>	(Optional) Physical interface

## Command Mode

- /exec





## L Show Commands

---

- [show l2 mroute](#), on page 1454
- [show l2 multicast ftag](#), on page 1456
- [show l2 multicast trees](#), on page 1457
- [show l2 route](#), on page 1459
- [show l2fwder l2rib info](#), on page 1461
- [show l2fwder statistics](#), on page 1462
- [show l2rib clients](#), on page 1463
- [show l2rib producers](#), on page 1464
- [show l2rib registrations](#), on page 1466
- [show l2route cmcast topology](#), on page 1467
- [show l2route evpn ead all](#), on page 1468
- [show l2route evpn ethernet-segment esi](#), on page 1469
- [show l2route evpn fl all](#), on page 1470
- [show l2route evpn fl evi](#), on page 1471
- [show l2route evpn imet all](#), on page 1472
- [show l2route evpn imet evi](#), on page 1473
- [show l2route evpn mac-ip all](#), on page 1474
- [show l2route evpn mac-ip evi](#), on page 1476
- [show l2route evpn mac all](#), on page 1478
- [show l2route evpn mac evi](#), on page 1480
- [show l2route evpn path-list all](#), on page 1482
- [show l2route evpn startup-route all](#), on page 1483
- [show l2route evpn startup-route evi](#), on page 1484
- [show l2route fl topology](#), on page 1485
- [show l2route peerid](#), on page 1486
- [show l2route summary](#), on page 1487
- [show l2route topology](#), on page 1488
- [show l2route topology](#), on page 1490
- [show l2route topology](#), on page 1492
- [show lacp counters](#), on page 1494
- [show lacp interface](#), on page 1495
- [show lacp issu-impact](#), on page 1498
- [show lacp neighbor](#), on page 1499

- [show lacp port-channel](#), on page 1500
- [show lacp system-identifier](#), on page 1501
- [show lcmd stats interface](#), on page 1502
- [show ldap-search-map](#), on page 1503
- [show ldap-server](#), on page 1504
- [show ldap-server groups](#), on page 1506
- [show ldap-server statistics](#), on page 1508
- [show license](#), on page 1510
- [show license brief](#), on page 1511
- [show license default](#), on page 1512
- [show license feature package mapping](#), on page 1513
- [show license file](#), on page 1514
- [show license host-id](#), on page 1515
- [show license tech support](#), on page 1516
- [show license usage](#), on page 1517
- [show line](#), on page 1518
- [show line console](#), on page 1519
- [show line console connected](#), on page 1520
- [show line console user-input-string](#), on page 1521
- [show lisp ddt](#), on page 1522
- [show lisp ddt queue](#), on page 1523
- [show lisp ddt referral-cache](#), on page 1524
- [show lisp dynamic-eid](#), on page 1525
- [show lisp elp](#), on page 1526
- [show lisp negative-prefix](#), on page 1527
- [show lisp proxy-itr](#), on page 1528
- [show lisp site](#), on page 1529
- [show lisp site instance-id](#), on page 1530
- [show lldp all](#), on page 1531
- [show lldp debx interface](#), on page 1532
- [show lldp entry](#), on page 1534
- [show lldp interface](#), on page 1536
- [show lldp neighbors](#), on page 1538
- [show lldp neighbors detail](#), on page 1540
- [show lldp neighbors system-detail](#), on page 1542
- [show lldp portid-subtype](#), on page 1543
- [show lldp timers](#), on page 1544
- [show lldp tlv-select](#), on page 1545
- [show lldp traffic](#), on page 1546
- [show lldp traffic interface](#), on page 1547
- [show lldp traffic interface all](#), on page 1548
- [show locator-led status](#), on page 1549
- [show logging](#), on page 1550
- [show logging console](#), on page 1551
- [show logging dropcount](#), on page 1552
- [show logging info](#), on page 1553

- [show logging ip access-list cache](#), on page 1555
- [show logging ip access-list status](#), on page 1557
- [show logging last](#), on page 1558
- [show logging level](#), on page 1559
- [show logging level](#), on page 1560
- [show logging level aaa](#), on page 1562
- [show logging level acllog](#), on page 1563
- [show logging level aclmgr](#), on page 1564
- [show logging level adbm](#), on page 1565
- [show logging level adjmgr](#), on page 1566
- [show logging level amt](#), on page 1567
- [show logging level arp](#), on page 1568
- [show logging level ascii-cfg](#), on page 1569
- [show logging level assoc\\_mgr](#), on page 1570
- [show logging level backup](#), on page 1571
- [show logging level bfd](#), on page 1572
- [show logging level bgp](#), on page 1573
- [show logging level bloggerd](#), on page 1574
- [show logging level bootvar](#), on page 1575
- [show logging level callhome](#), on page 1576
- [show logging level capability](#), on page 1577
- [show logging level catena](#), on page 1578
- [show logging level cdp](#), on page 1579
- [show logging level cert\\_enroll](#), on page 1580
- [show logging level cfs](#), on page 1581
- [show logging level clis](#), on page 1582
- [show logging level clk\\_mgr](#), on page 1583
- [show logging level confcheck](#), on page 1584
- [show logging level copp](#), on page 1585
- [show logging level core](#), on page 1586
- [show logging level cts](#), on page 1587
- [show logging level dhcp\\_snoop](#), on page 1588
- [show logging level diagnostic diagclient](#), on page 1589
- [show logging level diagnostic diagmgr](#), on page 1590
- [show logging level dot1x](#), on page 1591
- [show logging level ecp](#), on page 1592
- [show logging level eigrp](#), on page 1593
- [show logging level eltm](#), on page 1594
- [show logging level epp](#), on page 1595
- [show logging level ethdstats](#), on page 1596
- [show logging level ethpm](#), on page 1597
- [show logging level evb](#), on page 1598
- [show logging level evmc](#), on page 1599
- [show logging level evmed](#), on page 1600
- [show logging level evms](#), on page 1601
- [show logging level fabric forwarding](#), on page 1602

- [show logging level fabricpath isis, on page 1603](#)
- [show logging level fabricpath switch-id, on page 1604](#)
- [show logging level fcoe\\_mgr, on page 1605](#)
- [show logging level feature-mgr, on page 1606](#)
- [show logging level fs-daemon, on page 1607](#)
- [show logging level gpixm, on page 1608](#)
- [show logging level hardware-telemetry, on page 1609](#)
- [show logging level hsrp, on page 1610](#)
- [show logging level icam, on page 1611](#)
- [show logging level im, on page 1612](#)
- [show logging level imp, on page 1613](#)
- [show logging level interface-vlan, on page 1614](#)
- [show logging level ip igmp, on page 1615](#)
- [show logging level ip msdp, on page 1616](#)
- [show logging level ip sla responder, on page 1617](#)
- [show logging level ip sla sender, on page 1618](#)
- [show logging level ip sla twamp-server, on page 1619](#)
- [show logging level ipconf, on page 1620](#)
- [show logging level ipfib, on page 1621](#)
- [show logging level ipqos, on page 1622](#)
- [show logging level ipv6 icmp, on page 1623](#)
- [show logging level iscm, on page 1624](#)
- [show logging level iscm, on page 1625](#)
- [show logging level isis, on page 1626](#)
- [show logging level l2fm, on page 1627](#)
- [show logging level l3vm, on page 1628](#)
- [show logging level lacp, on page 1629](#)
- [show logging level ldap, on page 1630](#)
- [show logging level lim, on page 1631](#)
- [show logging level lisp, on page 1632](#)
- [show logging level lldp, on page 1633](#)
- [show logging level m2rib, on page 1634](#)
- [show logging level mfdm, on page 1635](#)
- [show logging level mfwd, on page 1636](#)
- [show logging level mmode, on page 1637](#)
- [show logging level module, on page 1638](#)
- [show logging level monitor, on page 1639](#)
- [show logging level mpls manager, on page 1640](#)
- [show logging level mpls switching, on page 1641](#)
- [show logging level mpls traffic-eng, on page 1642](#)
- [show logging level mvsh, on page 1643](#)
- [show logging level nat, on page 1644](#)
- [show logging level nbm, on page 1645](#)
- [show logging level netstack, on page 1646](#)
- [show logging level nfm, on page 1647](#)
- [show logging level nfm, on page 1648](#)

- [show logging level ngmvpn](#), on page 1649
- [show logging level ngoam](#), on page 1650
- [show logging level npv](#), on page 1651
- [show logging level ntp](#), on page 1652
- [show logging level nve](#), on page 1653
- [show logging level nxsdk](#), on page 1654
- [show logging level openflow](#), on page 1655
- [show logging level ospf](#), on page 1656
- [show logging level ospfv3](#), on page 1657
- [show logging level otv](#), on page 1658
- [show logging level pfstat](#), on page 1659
- [show logging level pim](#), on page 1660
- [show logging level pim](#), on page 1661
- [show logging level pixm](#), on page 1662
- [show logging level pktmgr](#), on page 1663
- [show logging level platform](#), on page 1664
- [show logging level plbm](#), on page 1665
- [show logging level plcmgr](#), on page 1666
- [show logging level pltfm\\_config](#), on page 1667
- [show logging level plugin](#), on page 1668
- [show logging level poap](#), on page 1669
- [show logging level poed](#), on page 1670
- [show logging level port-channel](#), on page 1671
- [show logging level port-profile](#), on page 1672
- [show logging level port-resources](#), on page 1673
- [show logging level port-security](#), on page 1674
- [show logging level port](#), on page 1675
- [show logging level private-vlan](#), on page 1676
- [show logging level ptp](#), on page 1677
- [show logging level radius](#), on page 1678
- [show logging level res\\_mgr](#), on page 1679
- [show logging level rip](#), on page 1680
- [show logging level routing ipv6 multicast](#), on page 1681
- [show logging level routing multicast](#), on page 1682
- [show logging level rpm](#), on page 1683
- [show logging level rsvp](#), on page 1684
- [show logging level sal](#), on page 1685
- [show logging level san-port-channel](#), on page 1686
- [show logging level san-port-channel](#), on page 1687
- [show logging level scheduler](#), on page 1688
- [show logging level security](#), on page 1689
- [show logging level segment-routing](#), on page 1690
- [show logging level session-mgr](#), on page 1691
- [show logging level sflow](#), on page 1692
- [show logging level smartc](#), on page 1693
- [show logging level smm](#), on page 1694

- [show logging level snmpd, on page 1695](#)
- [show logging level snmpmib\\_proc, on page 1696](#)
- [show logging level spanning-tree, on page 1697](#)
- [show logging level spm, on page 1698](#)
- [show logging level stripcl, on page 1699](#)
- [show logging level sysmgr, on page 1700](#)
- [show logging level tacacs, on page 1701](#)
- [show logging level telemetry, on page 1702](#)
- [show logging level template\\_manager, on page 1703](#)
- [show logging level track, on page 1704](#)
- [show logging level tunnel, on page 1705](#)
- [show logging level u2rib, on page 1706](#)
- [show logging level u6rib, on page 1707](#)
- [show logging level uddl, on page 1708](#)
- [show logging level ufdm, on page 1709](#)
- [show logging level urib, on page 1710](#)
- [show logging level vdc\\_mgr, on page 1711](#)
- [show logging level virtual-service, on page 1712](#)
- [show logging level vlan\\_mgr, on page 1713](#)
- [show logging level vmm, on page 1714](#)
- [show logging level vmtracker, on page 1715](#)
- [show logging level vpc, on page 1716](#)
- [show logging level vrrp-cfg, on page 1717](#)
- [show logging level vrrp-eng, on page 1718](#)
- [show logging level vrrpv3, on page 1719](#)
- [show logging level vsan, on page 1720](#)
- [show logging level vshd, on page 1721](#)
- [show logging level vtp, on page 1722](#)
- [show logging level wwn, on page 1723](#)
- [show logging level xbar, on page 1724](#)
- [show logging logfile, on page 1725](#)
- [show logging logfile duration, on page 1726](#)
- [show logging logfile last-index, on page 1727](#)
- [show logging logfile start-seqn, on page 1728](#)
- [show logging logfile start-time, on page 1729](#)
- [show logging loopback, on page 1730](#)
- [show logging module, on page 1731](#)
- [show logging monitor, on page 1732](#)
- [show logging nvram, on page 1733](#)
- [show logging onboard, on page 1734](#)
- [show logging onboard, on page 1735](#)
- [show logging onboard kernel-trace, on page 1738](#)
- [show logging origin-id, on page 1739](#)
- [show logging pending-diff, on page 1740](#)
- [show logging pending, on page 1741](#)
- [show logging rate-limit, on page 1742](#)

- [show logging rfc-strict](#), on page 1743
- [show logging server](#), on page 1744
- [show logging session status](#), on page 1745
- [show logging source-interface](#), on page 1746
- [show logging status](#), on page 1747
- [show logging timestamp](#), on page 1748
- [show login on-failure log](#), on page 1749
- [show login on-successful log](#), on page 1750

## show l2 mroute

```
show { l2 | fabricpath } mroute { [ vdc-omf ] { [ resolved ] } | [ vlan <vlanid> ] { { [ omf ] | [ flood ] } | [ source
{ <srcaddr> | <v6srcaddr> | <macsrcaddr> } ] [ group { <groupaddr> | <v6groupaddr> | <macgroupaddr> }
] } [ resolved ] [ ftag <ftag-id> ] [ hex ] } } [ __readonly__ [ <hex2> ] { TABLE_gr [ <ftag> ] <vlan_id> [ {
<v4src> <v4grp> <macgrp> | <v6src> <v6grp> <macsrc> } ] [ <omf> | <flood> ] <rt-uptime> <owners>
<num_nh> TABLE_nh { <nh_if> | <nh_sw> } [ <stale> ] [ <exclude> ] [ <svi> ] <flags> <nh-uptime>
<owner> <rt_type> | <done> | <start> } ]
```

### Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
mroute	Show multicast route database
vdc-omf	(Optional) Display vdc omf route
vlan	(Optional) Show information for a vlan
omf	(Optional) Show catch-all entry consisting of mroute ports
flood	(Optional) Display vlan flood route
ftag	(Optional) Show ftag number
source	(Optional) Show (s, g) source IP address
group	(Optional) Show group address
hex	(Optional) Display switch-ids in hex
<i>vlanid</i>	(Optional) Vlan value
<i>ftag-id</i>	(Optional) ftag id
<i>groupaddr</i>	(Optional) Group address
<i>macgroupaddr</i>	(Optional) MAC Group address
<i>srcaddr</i>	(Optional) Source address
<i>macsrcaddr</i>	(Optional) MAC source address
resolved	(Optional) Resolve switchid nexthops into the underlying interfaces
__readonly__	(Optional) Read Only
<i>hex2</i>	(Optional)
TABLE_gr	(Optional)



<i>vlan_id</i>	(Optional) VLAN
<i>rt-uptime</i>	(Optional) Time route was created
<i>num_nh</i>	(Optional) Number of next-hops
<i>owners</i>	(Optional) Owners
<i>v4src</i>	(Optional) IPv4 Multicast traffic source
<i>v4grp</i>	(Optional) IPv4 Multicast Group address
<i>macsrc</i>	(Optional) MAC Multicast traffic source
<i>macgrp</i>	(Optional) MAC Multicast Group address
<i>ftag</i>	(Optional) ftag id
<i>omf</i>	(Optional) Is OMF route
<i>flood</i>	(Optional) Is flood to vlan route
TABLE_nh	(Optional)
<i>nh_if</i>	(Optional) The next hop interface
<i>nh_sw</i>	(Optional) The next hop switch id
<i>owner</i>	(Optional) Owner
<i>flags</i>	(Optional) flags
<i>nh-uptime</i>	(Optional) Time nexthop was created
<i>rt_type</i>	(Optional) Route type
<i>stale</i>	(Optional) Is stale
<i>exclude</i>	(Optional) exclude from post routing replication
<i>svi</i>	(Optional) SVI interface
<i>done</i>	(Optional) Done displaying route data
<i>start</i>	(Optional) Print header

### Command Mode

- /exec

## show l2 multicast ftag

```
show { l2 | fabricpath } multicast ftag [ <ftag-id> ] [ __readonly__ TABLE_topo <id> <topo_config>
TABLE_ftag <ftag> <topo_id> <config> ]
```

### Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
multicast	Multicast information
ftag	ftag number
<i>ftag-id</i>	(Optional) ftag id
<i>__readonly__</i>	(Optional) Read Only
TABLE_topo	(Optional)
<i>id</i>	(Optional) topo id
<i>topo_config</i>	(Optional) program ftag star route
TABLE_ftag	(Optional)
<i>ftag</i>	(Optional) ftag
<i>topo_id</i>	(Optional) topo id
<i>config</i>	(Optional) ftag config

### Command Mode

- /exec

## show l2 multicast trees

```
show { l2 | fabricpath } multicast trees [ topo <topo-id> ] [ ftag <ftag-id> ] [ hex ] [ __readonly__ [ <hex2> ] ] { TABLE_swid <ftag> <topo_id> <sw_id> <rt-uptime> <owners> <num_nh> TABLE_nh [ <preferred> ] { <nh_if> | <nh_sw> } [ <stale> ] <distance> <nh-uptime> <owner> <flags> <rt_type> | <start> | <done> } ]
```

### Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
multicast	Multicast information
trees	Show the broadcast/multicast tree database
topo	(Optional) Show topo instance
ftag	(Optional) Show ftag number
hex	(Optional) Display switch-ids in hex
<i>topo-id</i>	(Optional) topo id
<i>ftag-id</i>	(Optional) ftag id
<i>__readonly__</i>	(Optional) Read Only
<i>hex2</i>	(Optional)
TABLE_swid	(Optional)
<i>sw_id</i>	(Optional) switch id
<i>topo_id</i>	(Optional) topo id
<i>ftag</i>	(Optional) ftag id
<i>rt-uptime</i>	(Optional) Time route was created
<i>num_nh</i>	(Optional) Number of next-hops
<i>owners</i>	(Optional) Owners
TABLE_nh	(Optional)
<i>preferred</i>	(Optional) Is preferred interface
<i>nh_if</i>	(Optional) The next hop interface
<i>nh_sw</i>	(Optional) The next hop switch id

<i>owner</i>	(Optional) Owner
<i>flags</i>	(Optional) flags
<i>rt_type</i>	(Optional) Route type
<i>nh-uptime</i>	(Optional) Time nexthop was created
<i>distance</i>	(Optional) admin distance
<i>stale</i>	(Optional) Is stale
<i>start</i>	(Optional)
<i>done</i>	(Optional)

**Command Mode**

- /exec

# show l2 route

```
show { l2 | fabricpath } route [ topology { <topo_val> [ switchid <switchid> ] | all } | switchid <switchid> ]
[ detail | hex ] + [ __readonly__ <line_marker> <is_hex> { TABLE_route <topo_id> <ftag_value> <swid>
<sswid> <num_paths> { TABLE_path <path_str> <admin_distance> <metric> <time> <time_detail> <uuid>
} } ]
```

## Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
route	Show FabricPath route information
topology	(Optional) topology
<i>topo_val</i>	(Optional) topology value
switchid	(Optional) switchid
<i>switchid</i>	(Optional) switchid value
all	(Optional) all topologies
detail	(Optional) detail
hex	(Optional) display in hex
<i>__readonly__</i>	(Optional) Read Only
<i>line_marker</i>	(Optional) line marker
<i>is_hex</i>	(Optional) print in hex
TABLE_route	(Optional) Route delimiter
<i>topo_id</i>	(Optional) topo-id value
<i>ftag_value</i>	(Optional) ftag value
<i>swid</i>	(Optional) switch-id
<i>sswid</i>	(Optional) sub-switch id
<i>num_paths</i>	(Optional) num of paths
TABLE_path	(Optional) Path delimiter
<i>path_str</i>	(Optional) paths
<i>admin_distance</i>	(Optional) admin distance

<i>metric</i>	(Optional) metric
<i>time</i>	(Optional) time
<i>time_detail</i>	(Optional) time_detail
<i>uuid</i>	(Optional) uuid

**Command Mode**

- /exec

# show l2fwder l2rib info

show l2fwder l2rib info

## Syntax Description

show	Show running system information
l2fwder	L2 software forwarding
l2rib	L2RIB
info	stats and info

## Command Mode

- /exec

# show l2fwder statistics

show l2fwder statistics

## Syntax Description

show	Show running system information
l2fwder	Display L2FWDER forwarding information
statistics	Show L2FWDER packet counters

## Command Mode

- /exec



## show l2rib clients

```
show l2rib clients [ <client_id> ] [ __readonly__ TABLE_l2rib_clients <client-id> <uuid> <process-suffix> ]
```

### Syntax Description

show	Show running system information
l2rib	Layer 2 routing information base
clients	L2RIB Clients
<i>client_id</i>	(Optional) Enter Client ID
<i>__readonly__</i>	(Optional)
<i>TABLE_l2rib_clients</i>	(Optional) L2RIB Clients Table
<i>client-id</i>	(Optional) Client ID
<i>uuid</i>	(Optional) Process ID
<i>process-suffix</i>	(Optional) Process Name Suffix

### Command Mode

- /exec

## show l2rib producers

```
show l2rib producers [ { topology | mac | mac-ip | ead | pl | imet | flood-list | startup-route | peerid | es } [ static
| local | bgp | vxlan | hmm | arp | ofa | lisp ] ] [ detail ] [ __readonly__ TABLE_l2rib_producers <prod-name>
<prod-id> <client-id> <obj-type> <admin-dist> <purge-time> <state> [ <prod-flags> ] ]
```

### Syntax Description

show	Show running system information
l2rib	Layer 2 routing information base
producers	L2RIB Producers
detail	(Optional) Detailed information
topology	(Optional) Filter on Topology
mac	(Optional) Filter on MAC
mac-ip	(Optional) Filter on MAC-IP
ead	(Optional) Filter on Ethernet-AD
pl	(Optional) Filter on Path List
imet	(Optional) Filter on IMET Route
flood-list	(Optional) Filter on Flood List
startup-route	(Optional) Filter on Startup Route
peerid	(Optional) Filter on Peerid
es	(Optional) Filter on ES
static	(Optional) Static
local	(Optional) Local
bgp	(Optional) BGP
vxlan	(Optional) VXLAN
hmm	(Optional) HMM
arp	(Optional) ARP
ofa	(Optional) OFA
lisp	(Optional) lisp
__readonly__	(Optional)
TABLE_l2rib_producers	(Optional) L2RIB Producers Table

<i>prod-name</i>	(Optional) Producer Name
<i>prod-id</i>	(Optional) Producer ID
<i>client-id</i>	(Optional) Client ID
<i>obj-type</i>	(Optional) Object Type
<i>admin-dist</i>	(Optional) Admin Distance
<i>purge-time</i>	(Optional) Purge Time
<i>state</i>	(Optional) State
<i>prod-flags</i>	(Optional) Global Producer Flags

**Command Mode**

- /exec

## show l2rib registrations

```
show l2rib registrations [ client <client_id> [ <topo_id> { mac | mac-ip | ead | pl | imet | flood-list | arp-signal
| startup-route | topo | es } ] ] [ __readonly__ TABLE_l2rib_registrations <client-id> <topo-id> <obj-type>
<prod> ]
```

### Syntax Description

show	Show running system information
l2rib	Layer 2 routing information base
registrations	L2RIB Registrations
client	(Optional) Global Registraion Entries
<i>client_id</i>	(Optional) Enter Client ID
<i>topo_id</i>	(Optional) Enter Topology ID
mac	(Optional) Filter on MAC
mac-ip	(Optional) Filter on MAC-IP
ead	(Optional) Filter on Ethernet-AD
pl	(Optional) Filter on Path List
imet	(Optional) Filter on IMET Route
es	(Optional) Filter on Ethernet Segment ID
flood-list	(Optional) Filter on Flood List
startup-route	(Optional) Filter on Startup Route
arp-signal	(Optional) Filter on ARP Signal
topo	(Optional) Filter on Topo Subtype
__readonly__	(Optional)
TABLE_l2rib_registrations	(Optional) L2RIB Registrations Table
<i>client-id</i>	(Optional) Client ID
<i>topo-id</i>	(Optional) Topology ID
<i>obj-type</i>	(Optional) Object Type
<i>prod</i>	(Optional) Producer

### Command Mode

- /exec

# show l2route cmcast topology

```
show l2route cmcast { topology <topo-id> | all } [ detail ] [ __readonly__ TABLE_l2route_cmcast <topo-id>
<src-ip-addr> <grp-ip-addr> <peer-ip-addr> [ <peer-type> ] [ <prod-type> ] [ <peer-id> ] [ <vrf-id> ] [
<l3vni-id> ] ]
```

## Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
cmcast	CMCAST Route
topology	Filter on topology ID
<i>topo-id</i>	topology ID
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_cmcast	(Optional) L2RIB CMCAST Table
<i>topo-id</i>	(Optional) Topology ID
<i>src-ip-addr</i>	(Optional) SRC IP Address
<i>grp-ip-addr</i>	(Optional) GRP IP Address
<i>peer-ip-addr</i>	(Optional) PEER IP Address
<i>peer-type</i>	(Optional) Peer Type
<i>prod-type</i>	(Optional) Producer Type
<i>peer-id</i>	(Optional) Peer ID
<i>vrf-id</i>	(Optional) VRF ID
<i>l3vni-id</i>	(Optional) L3VNI ID

## Command Mode

- /exec

# show l2route evpn ead all

```
show l2route evpn ead all [ detail ] [ __readonly__ TABLE_l2route_evpn_ead_all <topo-id> <prod> <esi>
<client-nfn> <num_pls> [ { <next-hop> } ] ]
```

## Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
ead	EAD
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_evpn_ead_all	(Optional) L2RIB EVPN EAD All Table
<i>topo-id</i>	(Optional) Topology ID
<i>prod</i>	(Optional) Producer
<i>esi</i>	(Optional) ESI
<i>client-nfn</i>	(Optional) Client Notification Bitmap
<i>num_pls</i>	(Optional) Number of Path lists
<i>next-hop</i>	(Optional) Next Hop

## Command Mode

- /exec

## show l2route evpn ethernet-segment esi

```
show l2route evpn ethernet-segment { esi <esi-id> | all } [ bgp | vxlan ] [ detail ] [ __readonly__
TABLE_l2route_es <ethernet-segment> <originating-rtr> <prod-name> <int-ifhdl> <client-nfn> ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
ethernet-segment	Ethernet Segment ID
esi	ESI Value
<i>esi-id</i>	ESI ID
all	Display all entries without filtering
bgp	(Optional) Filter on BGP producer
vxlan	(Optional) Filter on VXLAN producer
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_es	(Optional) L2RIB ES Table
<i>ethernet-segment</i>	(Optional) ESI
<i>originating-rtr</i>	(Optional) Originating Router
<i>prod-name</i>	(Optional) Producer Name
<i>int-ifhdl</i>	(Optional) Interface Handle
<i>client-nfn</i>	(Optional) Client Notification Bitmap

### Command Mode

- /exec

## show l2route evpn fl all

```
show l2route evpn fl all [ detail ] [ __readonly__ TABLE_l2route_fl_all <topo-id> <peer-id> <flood-list>
<is-service-node> [ <client-nfn> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
fl	Flood List
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_fl_all	(Optional) L2RIB Flood List All Table
<i>topo-id</i>	(Optional) Topology ID
<i>peer-id</i>	(Optional) Peer-ID
<i>flood-list</i>	(Optional) Flood List
<i>is-service-node</i>	(Optional) Is Service Node
<i>client-nfn</i>	(Optional) Client Notification Bitmap

### Command Mode

- /exec



# show l2route evpn fl evi

```
show l2route evpn fl evi <vpn-id> [ detail ] [ __readonly__ TABLE_l2route_fl <peer-id> <flood-list>
<is-service-node> [ <client-nfn> ] ]
```

## Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
fl	Flood List
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_fl	(Optional) L2RIB Flood List Table
<i>peer-id</i>	(Optional) Peer-ID
<i>flood-list</i>	(Optional) Flood List
<i>is-service-node</i>	(Optional) Is Service Node
<i>client-nfn</i>	(Optional) Client Notification Bitmap

## Command Mode

- /exec

## show l2route evpn imet all

```
show l2route evpn imet all [ detail ] [ __readonly__ TABLE_l2route_imet_all <topo-id> <vni> <prod-type>
<ip-addr> [ <eth-tag-id> ] [ <pmsi-flags> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id> ] [ <client-nfn>
]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
imet	IMET Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_imet_all	(Optional) L2RIB IMET All Table
<i>topo-id</i>	(Optional) Topology ID
<i>vni</i>	(Optional) VNI
<i>prod-type</i>	(Optional) Producer Type
<i>ip-addr</i>	(Optional) IP Address
<i>eth-tag-id</i>	(Optional) Ethernet Tag ID
<i>pmsi-flags</i>	(Optional) PMSI Flags
<i>flags</i>	(Optional) Flags
<i>type</i>	(Optional) Type
<i>vni-label</i>	(Optional) VNI Label
<i>tunnel-id</i>	(Optional) Tunnel ID
<i>client-nfn</i>	(Optional) Client Notification Bitmap

### Command Mode

- /exec

# show l2route evpn imet evi

```
show l2route evpn imet evi <vpn-id> [ bgp | vxlan ] [ detail ] [ __readonly__ TABLE_l2route_imet <vni>
<prod-type> <ip-addr> [ <eth-tag-id> ] [ <pmsi-flags> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id>
] [ <client-nfn> ] ]
```

## Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
imet	IMET Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
bgp	(Optional) Filter on BGP producer (remote imet routes)
vxlan	(Optional) Filter on VXLAN producer (local imet routes)
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_imet	(Optional) L2RIB IMET Table
<i>vni</i>	(Optional) VNI
<i>prod-type</i>	(Optional) Producer Type
<i>ip-addr</i>	(Optional) IP Address
<i>eth-tag-id</i>	(Optional) Ethernet Tag ID
<i>pmsi-flags</i>	(Optional) PMSI Flags
<i>flags</i>	(Optional) Flags
<i>type</i>	(Optional) Type
<i>vni-label</i>	(Optional) VNI Label
<i>tunnel-id</i>	(Optional) Tunnel ID
<i>client-nfn</i>	(Optional) Client Notification Bitmap

## Command Mode

- /exec

## show l2route evpn mac-ip all

```
show l2route evpn mac-ip all [ detail ] [ __readonly__ TABLE_l2route_mac_ip_all <topo-id> <mac-addr>
<host-ip> <prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [
<rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [
<encap-type> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac-ip	MAC-IP Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_ip_all	(Optional) L2RIB Mac-IP All Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>host-ip</i>	(Optional) Host IP
<i>prod-type</i>	(Optional) Producer Type
<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>l3-info</i>	(Optional) L3 Information
<i>fwd-state</i>	(Optional) Forwarding State
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index
<i>esi-id</i>	(Optional) ESI ID

<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info
<i>vrf-id</i>	(Optional) vrf id associated with route
<i>encap-type</i>	(Optional) Overlay encap type

**Command Mode**

- /exec

## show l2route evpn mac-ip evi

```
show l2route evpn mac-ip evi <vpn-id> [ arp | bgp | hmm ] [ mac <mac_addr> ] [ host-ip { <ipv4_host> | <ipv6_host> } ] [ next-hop { <ipv4_addr> | <ipv6_addr> | <if-hdl> } ] [ detail ] [ __readonly__
TABLE_l2route_mac_ip_evi <topo-id> <mac-addr> <host-ip> <prod-type> <flags> <seq-num> <next-hop1>
[ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [ <encap-type> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac-ip	MAC-IP Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
arp	(Optional) Filter on ARP producer
bgp	(Optional) Filter on BGP producer
hmm	(Optional) Filter on HMM producer
mac	(Optional) Filter on MAC address
<i>mac_addr</i>	(Optional) 48-bit MAC address value
host-ip	(Optional) Filter on Host IP address
<i>ipv4_host</i>	(Optional) IPv4 address
next-hop	(Optional) Filter on Next-Hop IP or Interface Name
<i>ipv4_addr</i>	(Optional) IPv4 address of Next Hop
<i>if-hdl</i>	(Optional) Interface index of Next Hop
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_ip_evi	(Optional) L2RIB Mac-IP Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>host-ip</i>	(Optional) Host IP
<i>prod-type</i>	(Optional) Producer Type

<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>l3-info</i>	(Optional) L3 Information
<i>fwd-state</i>	(Optional) Forwarding State
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info
<i>vrf-id</i>	(Optional) vrf-id associated with route
<i>encap-type</i>	(Optional) Overlay encap type

**Command Mode**

- /exec

## show l2route evpn mac all

```
show l2route evpn mac all [ detail ] [ __readonly__ TABLE_l2route_mac_all <topo-id> <mac-addr>
<prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <rte-res> ] [ <fwd-state> ] [ <res-pl-next-hop1>
] [ <res-pl-next-hop2> ] [ <sent-to> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] [ <encap-type> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac	MAC Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_all	(Optional) L2RIB Mac All Table
topo-id	(Optional) Topology ID
mac-addr	(Optional) Mac Address
prod-type	(Optional) Producer Type
flags	(Optional) Flags
seq-num	(Optional) Sequence Number
fwd-state	(Optional) Forwarding State
res-pl-next-hop1	(Optional) Resultant PL Next hop 1
res-pl-next-hop2	(Optional) Resultant PL Next hop 2
rte-res	(Optional) Route Resolution
sent-to	(Optional) Active Clients
esi-id	(Optional) ESI ID
soo	(Optional) SOO
pcinfo	(Optional) Port-Channel Info
encap-type	(Optional) Overlay encap type
next-hop1	(Optional) Next Hop 1
next-hop2	(Optional) Next Hop 2



## Command Mode

- /exec

## show l2route evpn mac evi

```
show l2route evpn mac evi <vpn-id> [ static | local | bgp | vxlan | lisp ] [ mac <mac_addr> ] [ next-hop {
<ipv4_addr> | <ipv6_addr> | <if-hdl> } ] [ esi <esi-id> ] [ detail ] [ __readonly__ TABLE_l2route_mac_evi
<topo-id> <mac-addr> <prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <rte-res> ] [ <fwd-state>
] [ <res-pl-next-hop1> ] [ <res-pl-next-hop2> ] [ <sent-to> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] [ <encap-type>
] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac	MAC Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
static	(Optional) Filter on Static producer
local	(Optional) Filter on Local producer
bgp	(Optional) Filter on BGP producer
vxlan	(Optional) Filter on VXLAN producer
lisp	(Optional) Filter on LISP producer
mac	(Optional) Filter on MAC address
esi	(Optional) Filter on ESI value
<i>mac_addr</i>	(Optional) Enter 48-bit MAC address value
next-hop	(Optional) Filter on Next-Hop IP or Interface Name
<i>ipv4_addr</i>	(Optional) IPv4 address of Next Hop
<i>if-hdl</i>	(Optional) Interface index of Next Hop
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_evi	(Optional) L2RIB Mac EVI Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type

<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>fwd-state</i>	(Optional) Forwarding State
<i>res-pl-next-hop1</i>	(Optional) Resultant PL Next hop 1
<i>res-pl-next-hop2</i>	(Optional) Resultant PL Next hop 2
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info
<i>encap-type</i>	(Optional) Overlay encap-type

**Command Mode**

- /exec

## show l2route evpn path-list all

```
show l2route evpn path-list { all | esi <esi-id> } [ detail ] [ __readonly__ TABLE_l2route_evpn_pathlist_all
<topo-id> <prod> <esi> [ <ecmp_label> ] [ <flags> ] [ <client_ctx> ] <mac-cnt> <client-nfn> [ { <cp-next-hop>
} ] [ { <res-next-hop> } ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
path-list	Path-List
all	Display all routes without filtering
esi	ESI Value
<i>esi-id</i>	ESI ID
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_evpn_pathlist_all	(Optional) L2RIB EVPN Pathlist all Table
<i>topo-id</i>	(Optional) Topology ID
<i>prod</i>	(Optional) Producer
<i>esi</i>	(Optional) ESI
<i>ecmp_label</i>	(Optional) ECMP label
<i>flags</i>	(Optional) Flags
<i>client_ctx</i>	(Optional) Client context
<i>mac-cnt</i>	(Optional) Mac count
<i>client-nfn</i>	(Optional) Client Notification Bitmap
<i>cp-next-hop</i>	(Optional) Control plane Next hops
<i>res-next-hop</i>	(Optional) Resultant Next hops

### Command Mode

- /exec

## show l2route evpn startup-route all

```
show l2route evpn startup-route all [ detail ] [ __readonly__ TABLE_l2route_startup_route_all <topo-id>
<src-group> <del-src-group> [ <src-lpbk-ifhdl> ] [ <nve-ifhdl> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
startup-route	Startup Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_startup_route_all	(Optional) L2RIB Startup-Route All Table
<i>topo-id</i>	(Optional) Topology ID
<i>src-group</i>	(Optional) Source Group
<i>del-src-group</i>	(Optional) Delivery Source Group
<i>src-lpbk-ifhdl</i>	(Optional) Source Loopback Interface Handle
<i>nve-ifhdl</i>	(Optional) NVE Interface Handle
<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

### Command Mode

- /exec

## show l2route evpn startup-route evi

```
show l2route evpn startup-route evi <vpn-id> [ detail ] [ __readonly__ TABLE_l2route_startup_route
<src-group> <del-src-group> [ <src-lpbk-ifhdl> ] [ <nve-ifhdl> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
startup-route	Startup Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_startup_route	(Optional) L2RIB Startup-Route Table
<i>src-group</i>	(Optional) Source Group
<i>del-src-group</i>	(Optional) Delivery Source Group
<i>src-lpbk-ifhdl</i>	(Optional) Source Loopback Interface Handle
<i>nve-ifhdl</i>	(Optional) NVE Interface Handle
<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

### Command Mode

- /exec

# show l2route fl topology

```
show l2route fl { topology <topo-id> | all } [ detail ] [ __readonly__ TABLE_l2route_fl [ <topo-id> ] <peer-id>
<flood-list> <is-service-node> [ <client-nfn> ] ]
```

## Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
fl	Flood List
all	Display all routes without filtering
topology	Filter on topology ID
<i>topo-id</i>	topology ID
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_fl	(Optional) L2RIB Flood List Table
<i>topo-id</i>	(Optional) Topology ID
<i>peer-id</i>	(Optional) Peer-ID
<i>flood-list</i>	(Optional) Flood List
<i>is-service-node</i>	(Optional) Is Service Node
<i>client-nfn</i>	(Optional) Client Notification Bitmap

## Command Mode

- /exec

# show l2route peerid

```
show l2route peerid [ __readonly__ TABLE_l2route_peerid <if-hdl> <ip-addr> <peer-id> <if-idx> <num-macs>
<num-nhs> ]
```

## Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
peerid	Display Peer ID DB
__readonly__	(Optional)
TABLE_l2route_peerid	(Optional) L2RIB Peer-ID Table
<i>if-hdl</i>	(Optional) Interface Handle
<i>ip-addr</i>	(Optional) IP Address
<i>if-idx</i>	(Optional) Peer Interface Index
<i>peer-id</i>	(Optional) Peer-ID
<i>num-macs</i>	(Optional) Number of Macs
<i>num-nhs</i>	(Optional) Number of NHs

## Command Mode

- /exec



# show l2route summary

```
show l2route summary [ __readonly__ { <total_memory> <numof_converged_tables> [ {
TABLE_l2route_summary <table_name> { TABLE_producer <producer_name> <id> <objects> <memory>
} <total><total_obj><total_mem> } ] } ]
```

## Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
summary	Summary
<i>__readonly__</i>	(Optional) Read only
<i>total_memory</i>	(Optional) Total memory
<i>numof_converged_tables</i>	(Optional) Number of converged tables
TABLE_l2route_summary	(Optional) L2route summary table
<i>table_name</i>	(Optional) Table name
TABLE_producer	(Optional) Producer table
<i>producer_name</i>	(Optional) Producer name
<i>id</i>	(Optional) id
<i>objects</i>	(Optional) objects
<i>memory</i>	(Optional) Memory

## Command Mode

- /exec

## show l2route topology

```
show l2route { mac | openflow mac | dataplane mac [ local | remote ] } { topology <topo-id> | all } [ detail ]
[ __readonly__ TABLE_l2route_mac <topo-id> <mac-addr> <prod-type> <flags> <seq-num> <next-hop1>
[ <next-hop2> ] [ <rte-res> ] [ <fwd-state> ] [ <res-pl-next-hop1> ] [ <res-pl-next-hop2> ] [ <sent-to> ] [
<esi-id> ] [ <soo> ] [ <pcinfo> ] [ <encap-type> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
dataplane	dataplane
openflow	openflow
mac	MAC Route
all	Display all routes without filtering
local	(Optional) dataplane learnt local routes
remote	(Optional) dataplane learnt remote routes
topology	Filter on topology ID
<i>topo-id</i>	topology ID
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
<i>TABLE_l2route_mac</i>	(Optional) L2RIB Mac All Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>fwd-state</i>	(Optional) Forwarding State
<i>res-pl-next-hop1</i>	(Optional) Resultant PL Next hop1
<i>res-pl-next-hop2</i>	(Optional) Resultant PL Next hop2

<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info
<i>encap-type</i>	(Optional) Overlay encap type

**Command Mode**

- /exec

## show l2route topology

```
show l2route topology [ <topo_id> ] [ detail ] [ __readonly__ TABLE_l2route_topology <topo-id> <topo-name>
<topo-type> [ <vni> ] [ <evi> ] [ <encap-type> ] [ <iod> ] [ <if-hdl> ] [ <vtep-ip> ] [ <emulated-ip> ] [
<emulated-ro-ip> ] [ <tx-id> ] [ <rcvd-flag> ] [ <rmac> ] [ <vrf-id> ] [ <vmac> ] [ <vmac-ro> ] [ <flags> ] [
<sub-flags> ] [ <prev-flags> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
topology	Display topology IDs
<i>topo_id</i>	(Optional) Enter Topology ID
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_topology	(Optional) L2RIB Topology Table
<i>topo-id</i>	(Optional) Topology ID
<i>topo-name</i>	(Optional) Topology Name
<i>topo-type</i>	(Optional) Topology Type
<i>vni</i>	(Optional) VNI
<i>evi</i>	(Optional) EVI
<i>encap-type</i>	(Optional) Encap Type
<i>iod</i>	(Optional) IOD
<i>if-hdl</i>	(Optional) Interface Handle
<i>vtep-ip</i>	(Optional) VTEP IP Address
<i>emulated-ip</i>	(Optional) Emulated VTEP IP Address
<i>emulated-ro-ip</i>	(Optional) Emulated RO VTEP IP Address
<i>tx-id</i>	(Optional) Transaction ID for Topology Ack
<i>rcvd-flag</i>	(Optional) Flag to Indicate Topology Ack
<i>rmac</i>	(Optional) Local Router MAC (For L3 VNIs)
<i>vrf-id</i>	(Optional) VRF ID (For L3 VNIs)
<i>vmac</i>	(Optional) Local Virtual MAC (For L3 VNIs)

<i>vmac-ro</i>	(Optional) Local Virtual MAC Re-Orig(For Multi-site)
<i>flags</i>	(Optional) Flags
<i>sub-flags</i>	(Optional) Sub Flags
<i>prev-flags</i>	(Optional) Previous Flags

**Command Mode**

- /exec

## show l2route topology

```
show l2route { mac-ip | openflow mac-ip } { topology <topo-id> | all } [ detail ] [ __readonly__
TABLE_l2route_mac_ip <topo-id> <mac-addr> <host-ip> <prod-type> <flags> <seq-num> <next-hop1> [
<next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [ <encap-type> ] ]
```

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
mac-ip	MAC-IP Route
all	Display all routes without filtering
openflow	openflow
topology	Filter on topology ID
<i>topo-id</i>	topology ID
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_ip	(Optional) L2RIB Mac-IP Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>host-ip</i>	(Optional) Host IP
<i>prod-type</i>	(Optional) Producer Type
<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>l3-info</i>	(Optional) L3 Information
<i>fwd-state</i>	(Optional) Forwarding State
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>peerid</i>	(Optional) Peer ID

<i>peer-ifindex</i>	(Optional) Peer Interface Index
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info
<i>vrf-id</i>	(Optional) vrf-id associated with route
<i>encap-type</i>	(Optional) Ovaerlay encap type

**Command Mode**

- /exec

## show lacp counters

```
show lacp counters [ interface <if0> ] [ detail ] [ __readonly__ TABLE_interface <interface> TABLE_member
<port> <pdu-sent> <pdu-rcvd> <marker-rcvd> <marker-resp-sent> [ <marker-sent> ] [ <marker-resp-rcvd>
] <pkt-errors> [ <pdu-timeout-count> ] [ <flap-count> ] [ <illegal-rcvd> ] [ <unknown-rcvd> ] ]
```

### Syntax Description

show	Show running system information
lacp	LACP protocol
counters	LACP counters
interface	(Optional) Specify a port-channel
detail	(Optional) For more counters
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port channel table
<i>interface</i>	(Optional) Port channel
TABLE_member	(Optional) Member port info
<i>port</i>	(Optional) Member port
<i>pdu-sent</i>	(Optional) Number of PDUs sent
<i>pdu-rcvd</i>	(Optional) Number of PDUs received
<i>marker-sent</i>	(Optional) Number of Marker PDUs sent
<i>marker-rcvd</i>	(Optional) Number of Marker PDUs received
<i>marker-resp-sent</i>	(Optional) Number of Marker response PDUs sent
<i>marker-resp-rcvd</i>	(Optional) Number of Marker response PDUs received
<i>pkt-errors</i>	(Optional) Number of packet errors
<i>illegal-rcvd</i>	(Optional) Number of illegal packets received
<i>unknown-rcvd</i>	(Optional) Number of unknown packets received
<i>pdu-timeout-count</i>	(Optional) Number of PDU timeouts
<i>flap-count</i>	(Optional) Number of flaps

### Command Mode

- /exec



## show lacp interface

```
show lacp interface [ <if0> ] [ __readonly__ { TABLE_lacp_intf <interface> <operational-state>
<channel-group> <port-channel> <pbus-sent> <pbus-rcvd> <marker-sent> <marker-rcvd> <marker-rcv-sent>
<marker-rcv-rcvd> <unknown-rcvd> <illegal-rcvd> <lag-id> <active-time> { localport <local-interface>
<local-mac-address> <local-system-priority> <local-port-priority> <local-port-num> <local-op-key>
<local-activity> <local-timeout> <local-sync> <local-collecting> <local-distributing> <partner-info-timeout>
<local-admin-state> <local-oper-state> } { partnerport <partner-interface> <partner-mac-address>
<partner-system-priority> <partner-port-priority> <partner-port-num> <partner-op-key> <partner-activity>
<partner-timeout> <partner-sync> <partner-collecting> <partner-distributing> <partner-admin-state>
<partner-oper-state> } <agg-or-indiv> } ]
```

### Syntax Description

show	Show running system information
lacp	LACP protocol
interface	Specify a interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_lacp_intf	(Optional) Table of LACP interfaces
<i>interface</i>	(Optional) Interface ID
<i>channel-group</i>	(Optional) Channel Group
<i>port-channel</i>	(Optional) Port Channel
<i>lag-id</i>	(Optional) LAG Id
<i>active-time</i>	(Optional) active-time
<i>operational-state</i>	(Optional) Operational State
<i>agg-or-indiv</i>	(Optional) Aggregate or individual port
<i>pbus-rcvd</i>	(Optional) PDUs received
<i>pbus-sent</i>	(Optional) PDUs sent
<i>marker-rcvd</i>	(Optional) Markers received
<i>marker-sent</i>	(Optional) Markers sent
<i>marker-rcv-rcvd</i>	(Optional) Marker response received
<i>marker-rcv-sent</i>	(Optional) Marker response sent
<i>unknown-rcvd</i>	(Optional) Unknown pdus received

<i>illegal-rcvd</i>	(Optional) Illegal pdus received
<i>localport</i>	(Optional) Local port information
<i>local-interface</i>	(Optional) Interface
<i>local-mac-address</i>	(Optional) MAC Address
<i>local-system-priority</i>	(Optional) System Priority
<i>local-port-priority</i>	(Optional) Port Priority
<i>local-port-num</i>	(Optional) Port Number
<i>local-op-key</i>	(Optional) Operational Key
<i>local-admin-state</i>	(Optional) Local Admin State
<i>local-oper-state</i>	(Optional) Local Oper State
<i>local-activity</i>	(Optional) Mode
<i>local-timeout</i>	(Optional) Timeout
<i>local-sync</i>	(Optional) Synchronization
<i>local-distributing</i>	(Optional) Distributing
<i>local-collecting</i>	(Optional) Collecting
<i>partner-info-timeout</i>	(Optional) Partner information refresh timeout
<i>partnerport</i>	(Optional) Partner port information
<i>partner-interface</i>	(Optional) Partner Interface
<i>partner-mac-address</i>	(Optional) Partner MAC Address
<i>partner-system-priority</i>	(Optional) Partner System Priority
<i>partner-port-priority</i>	(Optional) Partner Port Priority
<i>partner-port-num</i>	(Optional) Partner Port Number
<i>partner-op-key</i>	(Optional) Operational Key
<i>partner-admin-state</i>	(Optional) Partner Admin State
<i>partner-oper-state</i>	(Optional) Partner Oper State
<i>partner-activity</i>	(Optional) Mode
<i>partner-timeout</i>	(Optional) Timeout
<i>partner-sync</i>	(Optional) Synchronization
<i>partner-distributing</i>	(Optional) Distributing

<i>partner-collecting</i>	(Optional) Collecting
---------------------------	-----------------------

**Command Mode**

- /exec

# show lacp issu-impact

```
show lacp issu-impact [ __readonly__ TABLE_interface <interface> [ <failed_interface> ] [ <intf_issu_ready> ] ]
```

## Syntax Description

show	Show running system information
lacp	Show LACP information
issu-impact	Check for ISSU readiness
__readonly__	(Optional)
TABLE_interface	(Optional) Port-channel issu-impact member list
<i>interface</i>	(Optional) Port-channel Member
<i>failed_interface</i>	(Optional) ISSU failed interface
<i>intf_issu_ready</i>	(Optional) interfaces ready for issu

## Command Mode

- /exec

## show lacp neighbor

```
show lacp neighbor [ interface <if0> ] [ __readonly__ TABLE_interface <interface> TABLE_member <port>
<partner-system-id> <partner-port-num> <partner-age> <partner-flags> <partner-port-priority>
<partner-oper-key> <partner-port-state> ]
```

### Syntax Description

show	Show running system information
lacp	LACP protocol
neighbor	LACP interface neighbor
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port channel table
<i>interface</i>	(Optional) Port channel
TABLE_member	(Optional) Member port info
<i>port</i>	(Optional) Member port
<i>partner-system-id</i>	(Optional) Partner System ID
<i>partner-port-num</i>	(Optional) Partner Port Number
<i>partner-age</i>	(Optional) Partner age
<i>partner-flags</i>	(Optional) Partner flags
<i>partner-port-priority</i>	(Optional) Partner Port Priority
<i>partner-oper-key</i>	(Optional) Partner oper key
<i>partner-port-state</i>	(Optional) Partner port state

### Command Mode

- /exec

# show lacp port-channel

```
show lacp port-channel [ interface <if0> ] [ __readonly__ TABLE_interface <interface> <aggr-mac-address>
<local-system-priority> <local-system-id> <local-admin-key> <local-oper-key> <partner-system-priority>
<partner-system-id> <partner-oper-key> <max-delay> <agg-or-indiv> { <port-list> } + ]
```

## Syntax Description

show	Show running system information
lacp	LACP protocol
port-channel	LACP port-channels
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port channel table
<i>interface</i>	(Optional) Port channel
<i>aggr-mac-address</i>	(Optional) Mac Address of aggregator
<i>local-system-priority</i>	(Optional) Local System Priority
<i>local-system-id</i>	(Optional) Local System-Id
<i>local-admin-key</i>	(Optional) Local admin key
<i>local-oper-key</i>	(Optional) Local oper key
<i>partner-system-priority</i>	(Optional) Partner System Priority
<i>partner-system-id</i>	(Optional) Partner System-Id
<i>partner-oper-key</i>	(Optional) Partner oper key
<i>max-delay</i>	(Optional) Maximum delay between aggregator and mac-client
<i>agg-or-indiv</i>	(Optional) Aggregate or individual port
<i>port-list</i>	(Optional) List of port names for member ports

## Command Mode

- /exec

# show lacp system-identifier

show lacp system-identifier [ \_\_readonly\_\_ <system-priority> <system-mac> ]

## Syntax Description

show	Show running system information
lacp	LACP protocol
system-identifier	Show system-identifier information
__readonly__	(Optional)
<i>system-priority</i>	(Optional) System priority
<i>system-mac</i>	(Optional) System mac address

## Command Mode

- /exec

# show lcmd stats interface

show lcmd stats interface <interface>

## Syntax Description

show	Show running system information
lcmd	lcmd
stats	statistics
interface	get interface related stats at lcmd level
<i>interface</i>	Interface name to display

## Command Mode

- /exec



# show ldap-search-map

```
show ldap-search-map [ __readonly__ { number_of_search_maps <search_map_count> } [
TABLE_ldap_searchmaps [ <map_name> <map_baseDN> <map_attr> <map_filter> ] ] ]
```

## Syntax Description

<i>__readonly__</i>	(Optional)
<i>number_of_search_maps</i>	(Optional) Total number of search maps configured
<i>search_map_count</i>	(Optional) Ldap Search map count
<i>TABLE_ldap_searchmaps</i>	(Optional) Ldap search map configuration
<i>map_name</i>	(Optional) Search map name
<i>map_baseDN</i>	(Optional) Ldap base DN
<i>map_attr</i>	(Optional) Search map attribute
<i>map_filter</i>	(Optional) Ldap Search filter
show	Show running system information
ldap-search-map	Show LDAP configuration information

## Command Mode

- /exec

## show ldap-server

```
show ldap-server [ __readonly__ { global_timeout <g_timeout> } { global_port <g_port> } { global_deadtime
<g_deadtime> } { total_number_of_server <g_servers_count> } { TABLE_ldap_hosts <ldap_host>
<h_idletime> <h_test_user> <h_test_passwd> [ <h_test_dn> ] <h_timeout> <h_port> <h_rootDN>
<h_ssl_enable> <h_referral_disable> } ]
```

### Syntax Description

<code>__readonly__</code>	(Optional)
<code>TABLE_ldap_hosts</code>	(Optional) Ldap host configuration
<code>global_timeout</code>	(Optional) Ldap host global timeout
<code>global_port</code>	(Optional) Ldap host global port
<code>global_deadtime</code>	(Optional) Ldap host global deadtime
<code>total_number_of_server</code>	(Optional) Total number of ldap hosts configured
<code>g_servers_count</code>	(Optional) Total number of ldap hosts configured
<code>g_timeout</code>	(Optional) global timeout value
<code>g_port</code>	(Optional) Global ldap port
<code>g_deadtime</code>	(Optional) Global deadtime value
<code>ldap_host</code>	(Optional) Ldap host
<code>h_idletime</code>	(Optional) Ldap host idletime
<code>h_test_user</code>	(Optional) Ldap host testuser
<code>h_test_passwd</code>	(Optional) Ldap host password
<code>h_test_dn</code>	(Optional) Ldap testuser dn
<code>h_timeout</code>	(Optional) Ldap host timeout
<code>h_port</code>	(Optional) Ldap host port
<code>h_rootDN</code>	(Optional) Ldap host RootDN
<code>h_ssl_enable</code>	(Optional) Ldap host ssl configuration
<code>h_referral_disable</code>	(Optional) Ldap host referral chasing disable
<code>show</code>	Show running system information
<code>ldap-server</code>	Show LDAP configuration information

### Command Mode

- /exec

## show ldap-server groups

```
show ldap-server groups [ __readonly__ { total_number_of_groups <total_groups_count> } { TABLE_groups
<g_name> <g_vrf> <g_mode> <is_bind_and_search> <g_append_with_baseDN> <g_compare_or_bind>
<g_cmp_passwd_attr> [ <user-server-group> ] [ <Cert-DN-match> ] <auth_mechanism> [ TABLE_g_servers
<g_server> <g_port> <g_timeout> ] [ <g_search_map> ] } ]
```

### Syntax Description

show	Show running system information
ldap-server	Show LDAP configuration information
groups	Show LDAP server group configuration information
<i>__readonly__</i>	(Optional)
<i>total_number_of_groups</i>	(Optional) Total number of Ldap groups configured
<i>total_groups_count</i>	(Optional) Ldap group count
TABLE_groups	(Optional) LDAP Group information
<i>g_name</i>	(Optional) Ldap group name
<i>g_vrf</i>	(Optional) LDAP group vrf
<i>g_mode</i>	(Optional) LDAP group mode
<i>is_bind_and_search</i>	(Optional) Ldap Authentication bind or search
<i>g_append_with_baseDN</i>	(Optional) LDAP baseDN append information
<i>g_compare_or_bind</i>	(Optional) LDAP bind or compare
<i>g_cmp_passwd_attr</i>	(Optional) LDAP compare password attribute
<i>user-server-group</i>	(Optional) Ldap server group validation
<i>Cert-DN-match</i>	(Optional) Ldap group CERT-DN match
<i>auth_mechanism</i>	(Optional) Ldap server group authentication mechanism
TABLE_g_servers	(Optional) LDAP group server information
<i>g_server</i>	(Optional) LDAP group host
<i>g_port</i>	(Optional) LDAP group host port
<i>g_timeout</i>	(Optional) LDAP group host timeout
<i>g_search_map</i>	(Optional) LDAP group search map

### Command Mode

- /exec

## show ldap-server statistics

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

### Syntax Description

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

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

**Command Mode**

- /exec

# show license

```
show license [ __readonly__ { [ <lic_file_name> <lic_file_contents> ] + } ]
```

## Syntax Description

show	Show running system information
license	show the contents of all the license files
__readonly__	(Optional) Read only
<i>lic_file_name</i>	(Optional) Name of the license file
<i>lic_file_contents</i>	(Optional) License file contents

## Command Mode

- /exec



# show license brief

```
show license brief [ __readonly__ { [ <lic_file_name> ] + } ]
```

## Syntax Description

show	Show running system information
license	show the contents of all the license files
brief	Show a list of license files
__readonly__	(Optional) Read only
<i>lic_file_name</i>	(Optional) Name of the license file

## Command Mode

- /exec

# show license default

show license default [ \_\_readonly\_\_ { TABLE\_lic\_default <feature\_name> <def\_lic\_count> } ]

## Syntax Description

show	Show running system information
license	show the contents of all the license files
default	Show services using default license
__readonly__	(Optional) Read Only
<i>feature_name</i>	(Optional) Licensed Feature Name
TABLE_lic_default	(Optional)
<i>def_lic_count</i>	(Optional) Default License Count

## Command Mode

- /exec

# show license feature package mapping

```
show license feature package mapping [ __readonly__ { [ <app_name> [ <lc_type> <flags> <pkg_name>
<version> ]+ ]+ ] [ <null_map> ] } ]
```

## Syntax Description

show	Show running system information
license	show the contents of all the license files
feature	Show application name
package	Show license package name
mapping	Show mapping between application and package name
<i>__readonly__</i>	(Optional) Read only
<i>app_name</i>	(Optional) Name of the application
<i>lc_type</i>	(Optional) Lincard type
<i>flags</i>	(Optional) Are all licenses required
<i>pkg_name</i>	(Optional) License Package Name
<i>version</i>	(Optional) License version
<i>null_map</i>	(Optional) No mappings defined

## Command Mode

- /exec

# show license file

show license file <license-file> [ \_\_readonly\_\_ { [ <lic\_file\_contents> ] + } ]

## Syntax Description

show	Show running system information
license	Show the contents of all the license files
file	Show contents of a license file
<i>license-file</i>	Show the contents of license file __nil__ Please install a license before using this command.
__readonly__	(Optional) Read only
<i>lic_file_contents</i>	(Optional) License file contents

## Command Mode

- /exec

# show license host-id

show license host-id [ \_\_readonly\_\_ { <host\_id> } ]

## Syntax Description

show	Show running system information
license	show the contents of all the license files
host-id	Show unique id for this host for licensing
__readonly__	(Optional) Read only
<i>host_id</i>	(Optional) unique id for this host for licensing

## Command Mode

- /exec

# show license tech support

show license tech support

## Syntax Description

show	show commands
license	Display licensing information
tech	Gather information for troubleshooting
support	Gather information for troubleshooting

## Command Mode

- /exec

# show license usage

```
show license usage [ { detail | <license-feature> } ] [ __readonly__ { [ [ TABLE_show_lic_usage {
<feature_name> <lic_installed> <count> <status> <expiry_date> <comments> } ] { [ <application_name> ]
+ } ] ] [ <auth_status> [ TABLE_show_smart_lic_usage { <smart_feature_name> <smart_description>
<smart_count> <smart_version> <smart_status> } ] ] } ]
```

## Syntax Description

show	Show running system information
license	show the contents of all the license files
usage	Show license usage table
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>license-feature</i>	(Optional) Show usage of this license package
<i>__readonly__</i>	(Optional) Read only
TABLE_show_lic_usage	(Optional) License usage
<i>feature_name</i>	(Optional) Name of the feature
<i>lic_installed</i>	(Optional) Is the license installed?
<i>count</i>	(Optional) License count
<i>status</i>	(Optional) License status
<i>expiry_date</i>	(Optional) Expiry date of the license
<i>comments</i>	(Optional) License comments
<i>application_name</i>	(Optional) Name of the application using the license
<i>auth_status</i>	(Optional) Brief about smart license usage
TABLE_show_smart_lic_usage	(Optional) Smart License usage
<i>smart_feature_name</i>	(Optional) Name of the feature
<i>smart_description</i>	(Optional) Description of the entitlement
<i>smart_count</i>	(Optional) License count
<i>smart_version</i>	(Optional) License version
<i>smart_status</i>	(Optional) License status

## Command Mode

- /exec

# show line

```
show line [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str> <stat> [
TABLE_ps_output <ps> ] [ <speed_aux> <databits_aux> <stopbits_aux> <parity_aux> <modem_in_aux>
<modem_init_str_aux> <hw_fc_aux> <stat_aux> [ TABLE_ps_output_aux <ps_aux> ] ] ]
```

## Syntax Description

show	Show running system information
line	Show the line configuration
__readonly__	(Optional)
TABLE_ps_output	(Optional) Process info for console login
TABLE_ps_output_aux	(Optional) Process info for com1 login
<i>speed</i>	(Optional) Port speed(baud)
<i>databits</i>	(Optional) Bits per byte
<i>stopbits</i>	(Optional) Bits
<i>parity</i>	(Optional) Parity
<i>modem_in</i>	(Optional) Modem In
<i>modem_init_str</i>	(Optional) Modem Init-String
<i>stat</i>	(Optional) Statistics
<i>ps</i>	(Optional) Login process
<i>speed_aux</i>	(Optional) Port speed(baud)
<i>databits_aux</i>	(Optional) Bits per byte
<i>stopbits_aux</i>	(Optional) Bits
<i>parity_aux</i>	(Optional) Parity
<i>modem_in_aux</i>	(Optional) Modem In
<i>modem_init_str_aux</i>	(Optional) Modem Init-String
<i>hw_fc_aux</i>	(Optional) Hardware Flowcontrol
<i>stat_aux</i>	(Optional) Statistics
<i>ps_aux</i>	(Optional) Login process

## Command Mode

- /exec



# show line console

```
show line console [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str>
<stat> [ TABLE_ps_output <ps> ] ]
```

## Syntax Description

show	Show running system information
line	Show the line configuration
console	Show console line configurations
__readonly__	(Optional)
TABLE_ps_output	(Optional) Process info for console login
<i>speed</i>	(Optional) Port speed(baud)
<i>databits</i>	(Optional) Bits per byte
<i>stopbits</i>	(Optional) Bits
<i>parity</i>	(Optional) Parity
<i>modem_in</i>	(Optional) Modem In
<i>modem_init_str</i>	(Optional) Modem Init-String
<i>stat</i>	(Optional) Statistics
<i>ps</i>	(Optional) Login process

## Command Mode

- /exec

# show line console connected

show line console connected [ \_\_readonly\_\_ <output> ]

## Syntax Description

show	Show running system information
line	Show the line configuration
console	Show console line configurations
connected	Show whether the line is currently connected physically
__readonly__	(Optional)
<i>output</i>	(Optional) output string

## Command Mode

- /exec

# show line console user-input-string

```
show line console user-input-string [ __readonly__ <input> ]
```

## Syntax Description

show	Show running system information
line	Show the line configuration
console	Show console line configurations
user-input-string	Show user-input init string
__readonly__	(Optional)
<i>input</i>	(Optional) user input string

## Command Mode

- /exec

# show lisp ddt

```
show lisp ddt [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
ddt	LISP Delegated Database Tree (LISP-DDT)
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show lisp ddt queue

```
show lisp ddt queue [ [ instance-id <iid> ] { <eid> | <eid6> } ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
ddt	LISP Delegated Database Tree (LISP-DDT)
queue	Display LISP-DDT Map-Request queue in Map-Resolver
instance-id	(Optional) Show instance-ID summary display
<i>iid</i>	(Optional) Instance-ID for EID-prefix
<i>eid</i>	(Optional) IPv4 EID address
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

## show lisp ddt referral-cache

```
{ show lisp ddt referral-cache [ [ instance-id <iid> ] { <eid> | <eid6> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] | { show lisp ddt referral-cache { ms-ack | ms-referral | node-referral | ms-not-registered | delegation-hole | not-authoritative } [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

### Syntax Description

show	Show running system information
lisp	LISP show commands
ddt	LISP Delegated Database Tree (LISP-DDT)
referral-cache	Display LISP-DDT referral cache
instance-id	(Optional) Show instance-ID summary display
<i>iid</i>	(Optional) Instance-ID for EID-prefix
<i>eid</i>	(Optional) IPv4 EID address
ms-ack	Referral cache entries to map-servers
ms-referral	Referral cache entries from parent of map-servers
node-referral	Referral cache entries from parent of DDT-nodes
ms-not-registered	Referral cache entries from map-servers
delegation-hole	Referral cache entries from any DDT-node
not-authoritative	Referral cache entries from any DDT-node
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

# show lisp dynamic-eid

```
{ show lisp dynamic-eid { summary | { [ <dyn-eid-name> ] [ detail ] } } [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
dynamic-eid	Display dynamic-EIDs configured and discovered
summary	One-line summary display of discovered dynamic-EIDs
<i>dyn-eid-name</i>	(Optional) Display a single dynamic-EID
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
detail	(Optional) Display discovered dynamic-EIDs

## Command Mode

- /exec

# show lisp elp

```
show lisp elp [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
elp	Display LISP Explicit Locator Paths configured
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec



# show lisp negative-prefix

```
show lisp negative-prefix { <eid> | <eid6> } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
negative-prefix	Compute negative-prefix for hole in EID space
<i>eid</i>	IPv4 EID address
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show lisp proxy-itr

```
show lisp proxy-itr [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
proxy-itr	Display discovered proxy-ITRs (PITRs)
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show lisp site

```
{ show lisp site [ { { <eid> | <eid6> } [ instance-id <iid> ] } | { { <eid-prefix> | <eid-prefix6> } [ instance-id <iid> ] } | <site-name> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
site	Display Map-Server site EID-prefixes configured
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid</i>	(Optional) Display mapping for IP destination EID
<i>eid-prefix</i>	(Optional) Display exact match for IP EID-prefix entry
instance-id	(Optional) Instance EID-prefix registered in
<i>iid</i>	(Optional) Instance-ID value
<i>site-name</i>	(Optional) Display a single site
detail	(Optional) Display allowed registered locator sources

## Command Mode

- /exec

# show lisp site instance-id

```
{ show lisp site instance-id [ <iid> ] [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

## Syntax Description

show	Show running system information
lisp	LISP show commands
site	Display Map-Server site EID-prefixes configured
instance-id	Show instance-ID summary display
<i>iid</i>	(Optional) Show detail for entries of a single Instance-ID
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show lldp all

```
show lldp all [ __readonly__ TABLE_lldp_all <intf_desc> <lldp_tx> <lldp_rx> <lldp_dcbx> ]
```

## Syntax Description

show	Show running system information
lldp	Show lldp Protocol information
all	Show all interfaces in lldp database
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_lldp_all</i>	(Optional) output of show lldp all
<i>intf_desc</i>	(Optional) Interface desc
<i>lldp_tx</i>	(Optional) lldp tx status
<i>lldp_rx</i>	(Optional) lldp rx status
<i>lldp_dcbx</i>	(Optional) lldp dcbx status

## Command Mode

- /exec

## show lldp dcbx interface

```
show lldp dcbx interface <if_in> [ __readonly__ <if_out> <cfg_proto> <det_proto> [ <l_op_ver> <l_max_ver>
<l_seq_no> <l_ack_no> ] [ <l_feature> <l_feat_len> <l_cfg> ] + [ <p_op_ver> <p_max_ver> <p_seq_no>
<p_ack_no> ] [ <p_tlv_type> <p_tlv_ctrl> <p_tlv_len> <p_tlv_value> ] + ]
```

### Syntax Description

show	Show running system information
lldp	Show information about lldp
dcbx	Show dcbx information
interface	Show lldp interface information
<i>if_in</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>if_out</i>	(Optional) Interface ID
<i>cfg_proto</i>	(Optional) Configured DCBX Protocol
<i>det_proto</i>	(Optional) DCBX Protocol detected
<i>l_op_ver</i>	(Optional) local dcbx control operation version
<i>l_max_ver</i>	(Optional) local dcbx control maximum version
<i>l_seq_no</i>	(Optional) local dcbx control seq no
<i>l_ack_no</i>	(Optional) local dcbx control ack no
<i>l_feature</i>	(Optional) local feature
<i>l_feat_len</i>	(Optional) Local Feature Length
<i>l_cfg</i>	(Optional) local feature config
<i>p_op_ver</i>	(Optional) peer dcbx control operation version
<i>p_max_ver</i>	(Optional) peer dcbx control maximum version
<i>p_seq_no</i>	(Optional) peer dcbx control seq no
<i>p_ack_no</i>	(Optional) peer dcbx control ack no
<i>p_tlv_type</i>	(Optional) peer TLV type field
<i>p_tlv_ctrl</i>	(Optional) peer TLV control info
<i>p_tlv_len</i>	(Optional) Peer TLV Length
<i>p_tlv_value</i>	(Optional) peer TLV value field

### Command Mode

- /exec

# show lldp entry

```
show lldp entry [ <sys-name> ] [ __readonly__ { <neigh_hdr> } { TABLE_entry <chassis_type> <chassis_id>
<port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl> <capability>
<mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> } { <neigh_count>
} ]
```

## Syntax Description

show	Show running system information
lldp	Show information about lldp
entry	Show lldp entry information
<i>sys-name</i>	(Optional) WORD Peer's System name
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_entry	(Optional) Table Entry
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>l_port_id</i>	(Optional) Port ID
<i>port_desc</i>	(Optional) Port description
<i>sys_name</i>	(Optional) System name
<i>sys_desc</i>	(Optional) System description
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address
<i>mgmt_addr_ipv6_type</i>	(Optional) IPV6 Management Address type
<i>mgmt_addr_ipv6</i>	(Optional) IPV6 Management Address
<i>vlan_id</i>	(Optional) Vlan ID
<i>neigh_count</i>	(Optional)



### Command Mode

- /exec

## show lldp interface

```
show lldp interface <if0> [ __readonly__ <interface> <tx_en> <rx_en> <dcbx_en> <port_mac> [ <tlv_type>
<tlv_len> [ <tlv_value> ] ] + [ <l_op_ver> <l_max_ver> <l_seq_no> <l_ack_no> [ <l_feature> <l_cfg_len>
<l_cfg> ] + ] [ <p_op_ver> <p_max_ver> <p_seq_no> <p_ack_no> [ <p_tlv_type> <p_tlv_len> <p_tlv_value>
] + ] ]
```

### Syntax Description

show	Show running system information
lldp	Show information about lldp
interface	Show lldp interface information
<i>if0</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>tx_en</i>	(Optional) tx enable
<i>rx_en</i>	(Optional) rx enable
<i>dcbx_en</i>	(Optional) dcbox enable
<i>port_mac</i>	(Optional) Port mac address
<i>tlv_type</i>	(Optional) TLV type field
<i>tlv_len</i>	(Optional) TLV len field
<i>tlv_value</i>	(Optional) TLV value field
<i>l_op_ver</i>	(Optional) local dcbox control operation version
<i>l_max_ver</i>	(Optional) local dcbox control maximum version
<i>l_seq_no</i>	(Optional) local dcbox control seq no
<i>l_ack_no</i>	(Optional) local dcbox control ack no
<i>l_feature</i>	(Optional) local feature
<i>l_cfg_len</i>	(Optional) local feature config length
<i>l_cfg</i>	(Optional) local feature config
<i>p_op_ver</i>	(Optional) peer dcbox control operation version
<i>p_max_ver</i>	(Optional) peer dcbox control maximum version
<i>p_seq_no</i>	(Optional) peer dcbox control seq no

<i>p_ack_no</i>	(Optional) peer dcbx control ack no
<i>p_tlv_type</i>	(Optional) peer TLV type field
<i>p_tlv_len</i>	(Optional) peer TLV len field
<i>p_tlv_value</i>	(Optional) peer TLV value field

**Command Mode**

- /exec

# show lldp neighbors

```
show lldp neighbors [ interface <if> ] [ __readonly__ { <neigh_hdr> } { TABLE_nbor <chassis_type>
<chassis_id> <l_port_id> <hold_time> [ <capability> ] <system_capability> <enabled_capability> <port_type>
<port_id> <mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> } { <neigh_count>
} ]
```

## Syntax Description

show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	(Optional) Show lldp neighbor information on an interface
<i>if</i>	(Optional) Enter interface
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_nbor	(Optional) Neighbor Table
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>l_port_id</i>	(Optional) Local port ID
<i>hold_time</i>	(Optional) Hold time
<i>capability</i>	(Optional) Capability
<i>system_capability</i>	(Optional) System Capability
<i>enabled_capability</i>	(Optional) Enabled Capability
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address
<i>mgmt_addr_ipv6_type</i>	(Optional) IPV6 Management Address type
<i>mgmt_addr_ipv6</i>	(Optional) IPV6 Management Address
<i>neigh_count</i>	(Optional)

## Command Mode

- /exec

## show lldp neighbors detail

```
show lldp neighbors [ interface <if> ] detail [ __readonly__ { <neigh_hdr> } { TABLE_nbor_detail
<chassis_type> <chassis_id> <port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl>
[ <capability> ] <system_capability> <enabled_capability> <mgmt_addr_type> <mgmt_addr>
<mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> } { <neigh_count> } ]
```

### Syntax Description

show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	(Optional) Show lldp neighbor information on an interface
<i>if</i>	(Optional) Enter interface
detail	Show lldp neighbor detail information
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_nbor_detail	(Optional) Neighbor detail Table
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>l_port_id</i>	(Optional) Port ID
<i>port_desc</i>	(Optional) Port description
<i>sys_name</i>	(Optional) System name
<i>sys_desc</i>	(Optional) System description
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>system_capability</i>	(Optional) System Capability
<i>enabled_capability</i>	(Optional) Enabled Capability
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address

<i>mgmt_addr_ipv6_type</i>	(Optional) IPV6 Management Address type
<i>mgmt_addr_ipv6</i>	(Optional) IPV6 Management Address
<i>vlan_id</i>	(Optional) Vlan ID
<i>neigh_count</i>	(Optional)

**Command Mode**

- /exec

## show lldp neighbors system-detail

```
show lldp neighbors [ interface <if> ] system-detail [ __readonly__ { <neigh_hdr> } { TABLE_nbor_sys_detail
<sys_type> <sys_name> <l_port_id> <chassis_type> <chassis_id> <port_type> <port_id> <ttl> <capability>
<mgmt_addr_type> <mgmt_addr> } { <neigh_count> } ]
```

### Syntax Description

show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	(Optional) Show lldp neighbor information on an interface
<i>if</i>	(Optional) Enter interface
system-detail	Show lldp neighbor system detail information
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_nbor_sys_detail	(Optional) Neighbor sys-detail Table
<i>sys_type</i>	(Optional) System Type
<i>sys_name</i>	(Optional) System Name
<i>l_port_id</i>	(Optional) Local port ID
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address
<i>neigh_count</i>	(Optional)

### Command Mode

- /exec



# show lldp portid-subtype

```
show lldp portid-subtype [ __readonly__ <portid_subtype> ]
```

## Syntax Description

show	Show running system information
lldp	Show information about lldp
portid-subtype	Show lldp portid-subtype
__readonly__	(Optional)
<i>portid_subtype</i>	(Optional) portid-subtype for LLDP TLV and MIBs

## Command Mode

- /exec

# show lldp timers

```
show lldp timers [ __readonly__ <ttl> <reinit> <tx_interval> <tx_delay> <hold_mplier> <notification_interval> ]
```

## Syntax Description

show	Show running system information
lldp	Show information about lldp
timers	Show lldp timers
<i>__readonly__</i>	(Optional)
<i>ttl</i>	(Optional) Time to Live for lldp info
<i>reinit</i>	(Optional) Interface reinit timer
<i>tx_interval</i>	(Optional) Wait interval between successive transmit
<i>tx_delay</i>	(Optional) Delay between successive frame transmissions
<i>hold_mplier</i>	(Optional) Hold multiplier for ttl
<i>notification_interval</i>	(Optional) Notification interval for SNMP trap

## Command Mode

- /exec

## show lldp tlv-select

```
show lldp tlv-select [ __readonly__ <management-address-v4> <management-address-v6> <port-description>
<port-vlan> <power-management> <system-capabilities> <system-description> <system-name>
<dcbxp-cin-cee> [ <dcbxp-cn> ] [ <dcbxp-ets-cfg> ] [ <dcbxp-ets-reco> ] [ <dcbxp-pfc-cfg> ] [
<dcbxp-app-pri> ] [ <dcbxp-app-vlan> ] ]
```

### Syntax Description

show	Show running system information
lldp	Show information about lldp
tlv-select	Show lldp tlv-select
<i>__readonly__</i>	(Optional)
<i>management-address-v4</i>	(Optional) Management address v4
<i>management-address-v6</i>	(Optional) Management address v6
<i>port-description</i>	(Optional) Port description
<i>port-vlan</i>	(Optional) Port vlan
<i>power-management</i>	(Optional) IEEE 802.3 DTE Power via MDI TLV
<i>system-capabilities</i>	(Optional) System capabilities
<i>system-description</i>	(Optional) System description
<i>system-name</i>	(Optional) System name
<i>dcbxp-cin-cee</i>	(Optional) DCBXP CIN or CEE
<i>dcbxp-cn</i>	(Optional) DCBXP Congestion Notification
<i>dcbxp-ets-cfg</i>	(Optional) DCBXP ETS Configuration
<i>dcbxp-ets-reco</i>	(Optional) DCBXP ETS Recommendation
<i>dcbxp-pfc-cfg</i>	(Optional) DCBXP PFC Configuration
<i>dcbxp-app-pri</i>	(Optional) DCBXP Application Priorities
<i>dcbxp-app-vlan</i>	(Optional) DCBXP Application VLAN's

### Command Mode

- /exec

# show lldp traffic

```
show lldp traffic [ __readonly__ <tx_cnt> <aged_cnt> <rx_cnt> <rx_err> <disc_cnt> <unrecognized_tlv>
<flap_cnt> ]
```

## Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
<i>__readonly__</i>	(Optional)
<i>tx_cnt</i>	(Optional) Transmit count
<i>aged_cnt</i>	(Optional) Aged out count
<i>rx_cnt</i>	(Optional) Received count
<i>rx_err</i>	(Optional) Received error count
<i>disc_cnt</i>	(Optional) Disconnect count
<i>unrecognized_tlv</i>	(Optional) Unrecognized TLV count
<i>flap_cnt</i>	(Optional) flap count

## Command Mode

- /exec

# show lldp traffic interface

```
show lldp traffic interface <if> [ __readonly__ <interface> <tx_cnt> <aged_cnt> <rx_cnt> <rx_err> <disc_cnt>
<unrecognized_tlv> <flap_cnt> ]
```

## Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
interface	Show lldp traffic counters on an interface
<i>if</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>tx_cnt</i>	(Optional) Transmit count
<i>aged_cnt</i>	(Optional) Aged out count
<i>rx_cnt</i>	(Optional) Received count
<i>rx_err</i>	(Optional) Received error count
<i>disc_cnt</i>	(Optional) Disconnect count
<i>unrecognized_tlv</i>	(Optional) Unrecognized TLV count
<i>flap_cnt</i>	(Optional) flap count

## Command Mode

- /exec

## show lldp traffic interface all

```
show lldp traffic interface all [ __readonly__ TABLE_lldp_traffic_interface <interface> <tx_cnt> <aged_cnt>
<rx_cnt> <rx_err> <disc_cnt> <unrecognized_tlv> <flap_cnt> ]
```

### Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
interface	Show lldp traffic counters on an interface
all	Get status for all interfaces
<i>__readonly__</i>	(Optional)
<i>TABLE_lldp_traffic_interface</i>	(Optional) LLDP traffic interface table
<i>interface</i>	(Optional) Interface ID
<i>tx_cnt</i>	(Optional) Transmit count
<i>aged_cnt</i>	(Optional) Aged out count
<i>rx_cnt</i>	(Optional) Received count
<i>rx_err</i>	(Optional) Received error count
<i>disc_cnt</i>	(Optional) Disconnect count
<i>unrecognized_tlv</i>	(Optional) Unrecognized TLV count
<i>flap_cnt</i>	(Optional) flap count

### Command Mode

- /exec

# show locator-led status

show locator-led status [ \_\_readonly\_\_ { TABLE\_loc\_led\_stat <component> <status> } ]

## Syntax Description

show	Show running system information
locator-led	blink locator led on device
status	status
__readonly__	(Optional)
TABLE_loc_led_stat	(Optional)
<i>component</i>	(Optional)
<i>status</i>	(Optional)

## Command Mode

- /exec

# show logging

show logging

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile

## Command Mode

- /exec



# show logging console

show logging console

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
console	Show console logging configuration

## Command Mode

- /exec

# show logging dropcount

show logging dropcount

## Syntax Description

show	logging dropcount
logging	Show logging drop count of syslogs
dropcount	Show logging dropcount

## Command Mode

- /exec

## show logging info

```
show logging info [ __readonly__ { <console_status> [ <console_severity> ] } { <monitor_status> [
<monitor_severity> ] } { <linecard_status> [ <linecard_severity> ] } { <log_timestamp> } [ {
<source_interface_status> } [ <source_interface_intf> | <source_interface_intf_index> <source_interface_error>
] ] { <server_status> [ { TABLE_logserver <server> <forwarding> <severity> <facility> <vrf> <port> [
<transport> ] } ] } { <origin_id_status> } [ <origin_id> ] [ [ <logflash_status> ] [ <logflash_severity> ] ]
{ <logfile_status> [ <logfile_name> <logfile_severity> <logfile_size> ] } { { TABLE_facility
<fac_name> <def_level> <cur_level> } { <fac_info> } } ]
```

### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
info	Show logging configuration
<i>__readonly__</i>	(Optional)
<i>console_status</i>	(Optional) console logging status
<i>console_severity</i>	(Optional) console logging level
<i>monitor_status</i>	(Optional) monitor logging status
<i>monitor_severity</i>	(Optional) monitor logging level
<i>linecard_status</i>	(Optional) linecard logging status
<i>linecard_severity</i>	(Optional) linecard logging level
<i>log_timestamp</i>	(Optional) timestamp unit
<i>source_interface_status</i>	(Optional) source-interface logging status
<i>source_interface_intf</i>	(Optional) source-interface interface
<i>server_status</i>	(Optional) logging server status
TABLE_logserver	(Optional) output of show logging server
<i>transport</i>	(Optional) remote server transport
<i>origin_id_status</i>	(Optional) origin-id status
<i>origin_id</i>	(Optional) origin-id
<i>logflash_status</i>	(Optional) logflash status
<i>logflash_severity</i>	(Optional) logflash level
<i>logfile_status</i>	(Optional) logfile status
TABLE_facility	(Optional) output of show logging level(facility)

<i>fac_info</i>	(Optional) level info
-----------------	-----------------------

**Command Mode**

- /exec

## show logging ip access-list cache

```
show logging ip access-list cache [ detail ] [ __readonly__ <disp_flags> <sgt> <src_ip> <dst_ip> <src_port>
<dst_port> <if_index> <proto> <hit_cnt> <acl_name> <acl_num> <acl_permit> <acl_ingress> <acl_type>
<acl_appl_if_index> <acl_fltr_hit_cnt> ]
```

### Syntax Description

show	Show running system information
logging	logging information
ip	IP configuration
access-list	Access-list
cache	logging
detail	(Optional) Show additional details about entries in cache
<i>__readonly__</i>	(Optional)
<i>disp_flags</i>	(Optional) Display flags
<i>sgt</i>	(Optional) SGT
<i>src_ip</i>	(Optional) Source IP
<i>dst_ip</i>	(Optional) Dest IP
<i>src_port</i>	(Optional) Source port
<i>dst_port</i>	(Optional) Dest port
<i>if_index</i>	(Optional) Interface
<i>proto</i>	(Optional) Protocol
<i>hit_cnt</i>	(Optional) Hits
<i>acl_name</i>	(Optional) ACL Name
<i>acl_num</i>	(Optional) ACL Number
<i>acl_permit</i>	(Optional) ACL Permit
<i>acl_ingress</i>	(Optional) ACL Ingress
<i>acl_type</i>	(Optional) ACL Filter Type
<i>acl_appl_if_index</i>	(Optional) ACL Applied Interface
<i>acl_fltr_hit_cnt</i>	(Optional) ACL Filter Count

### Command Mode

- /exec

# show logging ip access-list status

show logging ip access-list status [ *\_\_readonly\_\_* <num\_entries> <seconds> <num\_packets> ]

## Syntax Description

show	Show running system information
logging	logging information
ip	IP configuration
access-list	Access-list
status	ACLLOG status
<i>__readonly__</i>	(Optional)
<i>num_entries</i>	(Optional) Max flows
<i>seconds</i>	(Optional) Log-update interval in seconds
<i>num_packets</i>	(Optional) threshold

## Command Mode

- /exec

# show logging last

show logging last <i0>

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
last	Show last few lines of logfile
<i>i0</i>	Enter number of lines to display

## Command Mode

- /exec



# show logging level

show logging level

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

## Command Mode

- /exec

## show logging level

```
show logging level [ { auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 |
local5 | local6 | local7 | lpr | mail | news | syslog | user | uucp } ] [ __readonly__ { TABLE_facility <fac_name>
<def_level> <cur_level> } ]
```

### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
auth	(Optional) Show Authorization System logging configuration
authpriv	(Optional) Show Authorization (Private) logging configuration
cron	(Optional) Show Cron/at facility logging configuration
daemon	(Optional) Show System daemons logging configuration
ftp	(Optional) Show File Transfer System logging configuration
kernel	(Optional) Show kernel logging configuration
local0	(Optional) Show Local use daemons logging configuration
local1	(Optional) Show Local use daemons logging configuration
local2	(Optional) Show Local use daemons logging configuration
local3	(Optional) Show Local use daemons logging configuration
local4	(Optional) Show Local use daemons logging configuration
local5	(Optional) Show Local use daemons logging configuration
local6	(Optional) Show Local use daemons logging configuration
local7	(Optional) Show Local use daemons logging configuration
lpr	(Optional) Show Line Printer System logging configuration
mail	(Optional) Show Mail System logging configuration
news	(Optional) Show USENET news logging configuration
syslog	(Optional) Show Internal Syslog Messages logging configuration
user	(Optional) Show user process logging configuration
uucp	(Optional) Show Unix-to-Unix copy system logging configuration
__readonly__	(Optional)

<i>fac_name</i>	(Optional) facility names
TABLE_facility	(Optional)
<i>def_level</i>	(Optional) default severity
<i>cur_level</i>	(Optional) current severity

**Command Mode**

- /exec

# show logging level aaa

show logging level aaa

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
aaa	Show aaa logging configuration

## Command Mode

- /exec

# show logging level aclog

show logging level aclog

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
aclog	Show aclog logging configuration

## Command Mode

- /exec

# show logging level aclmgr

show logging level aclmgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
aclmgr	Show aclmgr logging configuration

## Command Mode

- /exec

# show logging level adbm

show logging level adbm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
adbm	Show adbm logging configuration

## Command Mode

- /exec

# show logging level adjmgr

show logging level adjmgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
adjmgr	Show adjmgr logging configuration

## Command Mode

- /exec



# show logging level amt

show logging level amt

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
amt	Show amt logging configuration

## Command Mode

- /exec

# show logging level arp

show logging level arp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
arp	Show arp logging configuration

## Command Mode

- /exec

# show logging level ascii-cfg

show logging level ascii-cfg

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ascii-cfg	Show ascii-cfg logging configuration

## Command Mode

- /exec

# show logging level assoc\_mgr

show logging level assoc\_mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
assoc_mgr	Show Association Manager Logging Configuration

## Command Mode

- /exec

# show logging level backup

show logging level { backup | flexlink }

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
backup	Show Switchport Backup logging level
flexlink	Show Switchport Backup logging level

## Command Mode

- /exec

# show logging level bfd

show logging level bfd

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bfd	Show bfd logging configuration

## Command Mode

- /exec

# show logging level bgp

show logging level bgp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bgp	Show BGP logging configuration

## Command Mode

- /exec

# show logging level bloggerd

show logging level bloggerd

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bloggerd	Show BloggerD logging configuration

## Command Mode

- /exec



# show logging level bootvar

show logging level bootvar

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bootvar	Show bootvar logging configuration

## Command Mode

- /exec

# show logging level callhome

show logging level callhome

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
callhome	Show callhome logging configuration

## Command Mode

- /exec

# show logging level capability

show logging level capability

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
capability	Show capability logging configuration

## Command Mode

- /exec

# show logging level catena

show logging level catena

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
catena	Show catena logging configuration

## Command Mode

- /exec

# show logging level cdp

show logging level cdp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cdp	Show CDP logging configuration

## Command Mode

- /exec

# show logging level cert\_enroll

show logging level cert\_enroll

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cert_enroll	Show Cert-enroll logging configuration

## Command Mode

- /exec

# show logging level cfs

show logging level cfs

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

## Command Mode

- /exec

# show logging level clis

show logging level clis

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
clis	Show CLIS logging configuration

## Command Mode

- /exec



# show logging level clk\_mgr

show logging level clk\_mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
clk_mgr	Show clock manager logging configuration

## Command Mode

- /exec

# show logging level confcheck

show logging level confcheck

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
confcheck	Show confcheck logging configuration

## Command Mode

- /exec

# show logging level copp

show logging level copp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
copp	Show copp logging configuration

## Command Mode

- /exec

# show logging level core

show logging level core

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
core	Show core daemon logging configuration

## Command Mode

- /exec

# show logging level cts

show logging level cts

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cts	Show cts logging configuration

## Command Mode

- /exec

# show logging level dhcp\_snoop

show logging level dhcp\_snoop

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
dhcp_snoop	Show DHCP snoop logging configuration

## Command Mode

- /exec

# show logging level diagnostic diagclient

show logging level diagnostic diagclient

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
diagclient	Show diagclient logging configuration

## Command Mode

- /exec

# show logging level diagnostic diagmgr

show logging level diagnostic diagmgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
diagmgr	Show diagmgr logging configuration

## Command Mode

- /exec



# show logging level dot1x

show logging level dot1x

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
dot1x	Show dot1x logging configuration

## Command Mode

- /exec

# show logging level ecp

show logging level ecp

## Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ecp	Set syslog filter level for ECP

## Command Mode

- /exec

# show logging level eigrp

show logging level eigrp [ <eigrp-ptag> ]

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
eigrp	Show EIGRP logging configuration
<i>eigrp-ptag</i>	(Optional) Process tag

## Command Mode

- /exec

# show logging level eltm

show logging level eltm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
eltm	Show eltm logging configuration

## Command Mode

- /exec

# show logging level epp

show logging level epp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
epp	Show epp logging configuration

## Command Mode

- /exec

# show logging level ethdstats

show logging level ethdstats

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ethdstats	Show delta statistics logging configuration

## Command Mode

- /exec

# show logging level ethpm

show logging level ethpm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ethpm	Show ethpm logging configuration

## Command Mode

- /exec

# show logging level evb

show logging level evb

## Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
evb	Set syslog filter level for EVB

## Command Mode

- /exec



# show logging level evmc

show logging level evmc

## Syntax Description

show	Show running system information
logging	Show message logging facilities
level	Show facility logging configuration
evmc	Show level for evmc syslog messages

## Command Mode

- /exec

# show logging level evmed

show logging level evmed

## Syntax Description

show	Show running system information
logging	Show message logging facilities
level	Show facility logging configuration
evmed	Show level for evmed syslog messages

## Command Mode

- /exec

# show logging level evms

show logging level evms

## Syntax Description

show	Show running system information
logging	Show message logging facilities
level	Show facility logging configuration
evms	Show level for evms syslog messages

## Command Mode

- /exec

# show logging level fabric forwarding

show logging level fabric forwarding

## Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)

## Command Mode

- /exec

# show logging level fabricpath isis

show logging level fabricpath isis

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fabricpath	Show fabricpath logging configuration
isis	Show ISIS logging configuration

## Command Mode

- /exec

# show logging level fabricpath switch-id

show logging level fabricpath switch-id

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fabricpath	fabricpath information
switch-id	show fabricpath switch-id logging configuration

## Command Mode

- /exec

# show logging level fcoe\_mgr

show logging level fcoe\_mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fcoe_mgr	Show fcoe_mgr logging configuration

## Command Mode

- /exec

# show logging level feature-mgr

show logging level feature-mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
feature-mgr	Show feature manager logging configuration

## Command Mode

- /exec



# show logging level fs-daemon

show logging level fs-daemon

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fs-daemon	Show fs-daemon logging configuration

## Command Mode

- /exec

# show logging level gpixm

show logging level gpixm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
gpixm	Show global-pixm logging configuration

## Command Mode

- /exec

# show logging level hardware-telemetry

show logging level hardware-telemetry

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
hardware-telemetry	Show hardware-telemetry logging configuration

## Command Mode

- /exec

# show logging level hsrp

show logging level hsrp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
hsrp	Show HSRP logging configuration

## Command Mode

- /exec

# show logging level icam

show logging level icam

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
icam	Show icam logging configuration

## Command Mode

- /exec

# show logging level im

show logging level im

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
im	Show im logging configuration

## Command Mode

- /exec

# show logging level imp

show logging level imp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
imp	Show imp logging configuration

## Command Mode

- /exec

# show logging level interface-vlan

show logging level interface-vlan

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
interface-vlan	Show interface-vlan logging configuration

## Command Mode

- /exec



# show logging level ip igmp

show logging level ip igmp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	Display IP information
igmp	Show igmp logging configuration

## Command Mode

- /exec

# show logging level ip msdp

show logging level ip msdp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	Display IP information
msdp	Show msdp logging configuration

## Command Mode

- /exec

# show logging level ip sla responder

show logging level ip sla responder

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	
sla	Service Level Agreement (SLA)
responder	Show sla-responder logging configuration

## Command Mode

- /exec

# show logging level ip sla sender

show logging level ip sla sender

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	
sla	Service Level Agreement (SLA)
sender	Show sla-sender logging configuration

## Command Mode

- /exec

# show logging level ip sla twamp-server

show logging level ip sla twamp-server

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	
sla	Service Level Agreement (SLA)
twamp-server	Show sla-twamp-server logging configuration

## Command Mode

- /exec

# show logging level ipconf

show logging level ipconf [ ipv6 ]

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ipconf	Show ipconf logging configuration
ipv6	(Optional) Show ipv6 Conf logging configuration

## Command Mode

- /exec

# show logging level ipfib

show logging level ipfib

## Syntax Description

show	show
logging	logging
level	level
ipfib	ipfib

## Command Mode

- /exec

# show logging level ipqos

show logging level ipqos

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

## Command Mode

- /exec



# show logging level ipv6 icmp

show logging level ipv6 icmp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ipv6	Configure IPv6 features
icmp	Show icmpv6 logging configuration

## Command Mode

- /exec

# show logging level iscm

show logging level iscm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
iscm	Show iscm logging configuration

## Command Mode

- /exec

# show logging level iscm

show logging level iscm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
iscm	Show iscm logging configuration

## Command Mode

- /exec

# show logging level isis

show logging level isis

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
isis	Show ISIS logging configuration

## Command Mode

- /exec

# show logging level l2fm

show logging level l2fm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
l2fm	Show l2fm logging configuration

## Command Mode

- /exec

# show logging level l3vm

show logging level l3vm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
l3vm	Show L3VM logging configuration

## Command Mode

- /exec

# show logging level lacp

show logging level lacp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lacp	Show lacp logging configuration

## Command Mode

- /exec

# show logging level ldap

show logging level ldap

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ldap	Show ldap logging configuration

## Command Mode

- /exec



# show logging level lim

show logging level lim

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lim	Show lim logging configuration

## Command Mode

- /exec

# show logging level lisp

show logging level lisp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lisp	Show lisp logging configuration

## Command Mode

- /exec

# show logging level lldp

show logging level lldp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lldp	Show LLDP logging configuration

## Command Mode

- /exec

# show logging level m2rib

show logging level m2rib

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
m2rib	Show M2RIB logging configuration

## Command Mode

- /exec

# show logging level mfdm

show logging level mfdm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mfdm	Show mfdm logging configuration

## Command Mode

- /exec

# show logging level mfwd

show logging level mfwd

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mfwd	Show MCASTFWD logging configuration

## Command Mode

- /exec

# show logging level mmode

show logging level mmode

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mmode	Show maintenance mode logging configuration

## Command Mode

- /exec

# show logging level module

show logging level module

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
module	Show module(linecard) manager logging configuration

## Command Mode

- /exec



# show logging level monitor

show logging level monitor

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
monitor	Show monitor logging configuration

## Command Mode

- /exec

# show logging level mpls manager

show logging level mpls manager

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mpls	Show MPLS logging configuration
manager	Show MPLS manager logging configuration

## Command Mode

- /exec

# show logging level mpls switching

show logging level mpls switching

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mpls	Show MPLS logging configuration
switching	Show mpls switching logging configuration

## Command Mode

- /exec

# show logging level mpls traffic-eng

show logging level mpls traffic-eng

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mpls	Display MPLS status and configuration
traffic-eng	Show Traffic Engineering logging configuration

## Command Mode

- /exec

# show logging level mvsh

show logging level mvsh

## Syntax Description

show	Show commands
logging	Show message logging facilities
level	Show message logging facilities
mvsh	Show level for mvsh syslog messages

## Command Mode

- /exec

# show logging level nat

show logging level nat

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nat	Show NAT logging configurarion

## Command Mode

- /exec

# show logging level nbm

show logging level nbm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nbm	Show Non Blocking Multicast logging configuration

## Command Mode

- /exec

# show logging level netstack

show logging level netstack

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
netstack	Show netstack logging configuration

## Command Mode

- /exec



# show logging level nfm

show logging level nfm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nfm	Show NFM logging configuration

## Command Mode

- /exec

# show logging level nfm

show logging level nfm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nfm	Show NFM logging configuration

## Command Mode

- /exec

# show logging level ngmvpn

show logging level ngmvpn

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ngmvpn	Show ngmvpn logging configuration

## Command Mode

- /exec

# show logging level ngoam

show logging level ngoam

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ngoam	Show ngoam logging level

## Command Mode

- /exec

# show logging level npv

show logging level npv

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
npv	Show npv logging configuration

## Command Mode

- /exec

# show logging level ntp

show logging level ntp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ntp	Show NTP logging settings.

## Command Mode

- /exec

# show logging level nve

show logging level nve

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nve	Show NVE logging configuration

## Command Mode

- /exec

# show logging level nxsdk

show logging level nxsdk

## Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
nxsdk	NXOS SDK

## Command Mode

- /exec



# show logging level openflow

show logging level openflow

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
openflow	Show OpenFlow agent logging configuration

## Command Mode

- /exec

# show logging level ospf

show logging level ospf

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ospf	Show OSPF logging configuration

## Command Mode

- /exec

# show logging level ospfv3

show logging level ospfv3

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ospfv3	Display OSPFv3 status and configuration

## Command Mode

- /exec

# show logging level otv

show logging level otv

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
otv	Show OTV logging configuration

## Command Mode

- /exec

# show logging level pfstat

show logging level pfstat

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pfstat	Show pfstat logging configuration

## Command Mode

- /exec

# show logging level pim

show logging level [ ip ] pim

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	(Optional) Display IP information
pim	Show pim logging configuration

## Command Mode

- /exec

# show logging level pim

show logging level [ ipv6 ] pim

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ipv6	(Optional) Display IPv6 information
pim	Show pim6 logging configuration

## Command Mode

- /exec

# show logging level pixm

show logging level pixm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pixm	Show vdc-local-pixm logging configuration

## Command Mode

- /exec



# show logging level pktmgr

show logging level pktmgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pktmgr	Show pktmgr logging configuration

## Command Mode

- /exec

# show logging level platform

show logging level platform

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
platform	Show platform logging configuration

## Command Mode

- /exec

# show logging level plbm

show logging level plbm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
plbm	Show plbm logging configuration

## Command Mode

- /exec

# show logging level plcmgr

show logging level plcmgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

## Command Mode

- /exec

# show logging level pltfm\_config

show logging level pltfm\_config

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pltfm_config	Show pltfm_config logging configuration

## Command Mode

- /exec

# show logging level plugin

show logging level plugin

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
plugin	Show plugin logging configuration

## Command Mode

- /exec

# show logging level poap

show logging level poap

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
poap	Show poap logging configuration

## Command Mode

- /exec

# show logging level poed

show logging level poed

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
poed	Show PoE Daemon Logging Configuration

## Command Mode

- /exec



# show logging level port-channel

show logging level port-channel

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-channel	Show port-channel logging configuration

## Command Mode

- /exec

# show logging level port-profile

show logging level port-profile

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-profile	Show syslog level for port-profile

## Command Mode

- /exec

# show logging level port-resources

show logging level port-resources

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-resources	Show port-resources logging configuration

## Command Mode

- /exec

# show logging level port-security

show logging level port-security

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-security	Show port-security logging configuration

## Command Mode

- /exec

# show logging level port

show logging level port

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port	Show port logging configuration

## Command Mode

- /exec

# show logging level private-vlan

show logging level private-vlan

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
private-vlan	Show interface-vlan logging configuration

## Command Mode

- /exec

# show logging level ptp

show logging level ptp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ptp	Show ptp logging configuration

## Command Mode

- /exec

# show logging level radius

show logging level radius

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
radius	Show radius logging configuration

## Command Mode

- /exec



# show logging level res\_mgr

show logging level res\_mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
res_mgr	Show res_mgr logging configuration

## Command Mode

- /exec

# show logging level rip

show logging level rip

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
rip	Show RIP logging configuration

## Command Mode

- /exec

# show logging level routing ipv6 multicast

show logging level routing ipv6 multicast

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information

## Command Mode

- /exec

# show logging level routing multicast

show logging level routing [ ip | ipv4 ] multicast

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information

## Command Mode

- /exec

# show logging level rpm

show logging level rpm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
rpm	Show RPM logging configuration

## Command Mode

- /exec

# show logging level rsvp

show logging level rsvp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
rsvp	Show RSVP logging configuration

## Command Mode

- /exec

# show logging level sal

show logging level sal

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
sal	Show SAL logging configuration

## Command Mode

- /exec

# show logging level san-port-channel

show logging level san-port-channel

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
san-port-channel	Show san-port-channel logging configuration

## Command Mode

- /exec



# show logging level san-port-channel

show logging level san-port-channel

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
san-port-channel	Show san-port-channel logging configuration

## Command Mode

- /exec

# show logging level scheduler

show logging level scheduler

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
scheduler	Show scheduler logging configuration

## Command Mode

- /exec

# show logging level security

show logging level security

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
security	Show security logging configuration

## Command Mode

- /exec

# show logging level segment-routing

show logging level segment-routing

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
segment-routing	Show SR logging configuration

## Command Mode

- /exec

# show logging level session-mgr

show logging level session-mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
session-mgr	Show session-mgr logging configurarion

## Command Mode

- /exec

# show logging level sflow

show logging level sflow

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
sflow	Show sFlow logging configuration

## Command Mode

- /exec

# show logging level smartc

show logging level smartc

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
smartc	Show smartc logging configuration

## Command Mode

- /exec

# show logging level smm

show logging level smm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
smm	Show Shared Memory Manager logging configuration

## Command Mode

- /exec



# show logging level snmpd

show logging level snmpd

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
snmpd	Show SNMP logging configuration

## Command Mode

- /exec

# show logging level snmpmib\_proc

show logging level snmpmib\_proc

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
snmpmib_proc	Show snmpmib_proc logging configuration

## Command Mode

- /exec

# show logging level spanning-tree

show logging level spanning-tree

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
spanning-tree	Show spanning-tree logging configuration

## Command Mode

- /exec

# show logging level spm

show logging level spm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
spm	Show spm logging configuration

## Command Mode

- /exec

# show logging level stripcl

show logging level stripcl

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
stripcl	Show stripcl logging configuration

## Command Mode

- /exec

# show logging level sysmgr

show logging level sysmgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
sysmgr	Show sysmgr logging configuration

## Command Mode

- /exec

# show logging level tacacs

show logging level tacacs

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
tacacs	Show tacacs+ logging configuration

## Command Mode

- /exec

# show logging level telemetry

show logging level telemetry

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
telemetry	Show telemetry logging level

## Command Mode

- /exec



# show logging level template\_manager

show logging level template\_manager

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
template_manager	Show template manager logging configuration

## Command Mode

- /exec

# show logging level track

show logging level track

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
track	Show track logging configuration

## Command Mode

- /exec

# show logging level tunnel

show logging level tunnel

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
tunnel	Show tunnel logging settings

## Command Mode

- /exec

# show logging level u2rib

show logging level u2rib

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
u2rib	Show U2RIB logging configuration

## Command Mode

- /exec

# show logging level u6rib

show logging level u6rib

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
u6rib	Show U6RIB logging configuration

## Command Mode

- /exec

# show logging level udd

show logging level udd

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
udd	Show udd logging configuration

## Command Mode

- /exec

# show logging level ufdm

show logging level ufdm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ufdm	Show ufdm logging configuration

## Command Mode

- /exec

# show logging level urib

show logging level urib

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
urib	Show URIB logging configuration

## Command Mode

- /exec



# show logging level vdc\_mgr

show logging level vdc\_mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vdc_mgr	Show vdc manager logging configuration

## Command Mode

- /exec

# show logging level virtual-service

show logging level virtual-service

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
virtual-service	Show virtualization manager logging configuration

## Command Mode

- /exec

# show logging level vlan\_mgr

show logging level vlan\_mgr

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vlan_mgr	Show vlan manager logging configuration

## Command Mode

- /exec

# show logging level vmm

show logging level vmm

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vmm	Show vmm logging configuration

## Command Mode

- /exec

# show logging level vmtracker

show logging level vmtracker

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vmtracker	Show vmtracker logging configuration

## Command Mode

- /exec

# show logging level vpc

show logging level vpc

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vpc	Show vPC logging configuration

## Command Mode

- /exec

# show logging level vrrp-cfg

show logging level vrrp-cfg

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vrrp-cfg	Show vrrp-cfg logging configuration

## Command Mode

- /exec

# show logging level vrrp-eng

show logging level vrrp-eng

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vrrp-eng	Show vrrp-eng logging configuration

## Command Mode

- /exec



# show logging level vrrpv3

show logging level vrrpv3

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vrrpv3	level for vrrpv3 configuration

## Command Mode

- /exec

# show logging level vsan

show logging level vsan

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vsan	Show vsan logging configuration

## Command Mode

- /exec

# show logging level vshd

show logging level vshd

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

## Command Mode

- /exec

# show logging level vtp

show logging level vtp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vtp	Show vtp logging configuration

## Command Mode

- /exec

# show logging level wwn

show logging level wwn

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
wwn	Show wwn logging configuration

## Command Mode

- /exec

# show logging level xbar

show logging level xbar

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

## Command Mode

- /exec

# show logging logfile

show logging logfile

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile

## Command Mode

- /exec

# show logging logfile duration

show logging logfile duration <s1>

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
duration	show messages from logfile of last given duration
<i>s1</i>	Enter hour, minutes, seconds of duration as HH:MM:SS

## Command Mode

- /exec



# show logging logfile last-index

show logging logfile last-index

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
last-index	Show the sequence-number of the last message in logfile

## Command Mode

- /exec

## show logging logfile start-seqn

show logging logfile start-seqn <i0> [ end-seqn <i1> ]

### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
start-seqn	Show messages from logfile from a given start-sequence-number
<i>i0</i>	Enter starting sequence number
end-seqn	(Optional) Show messages from logfile from a given end-sequence-number
<i>il</i>	(Optional) Enter ending sequence number

### Command Mode

- /exec

## show logging logfile start-time

show logging logfile start-time <i0> <s0> <i1> <s1> [ end-time <i2> <s2> <i3> <s3> ]

### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
start-time	Show messages from logfile from a given start-time
<i>i0</i>	Enter year in YYYY format
<i>s0</i>	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>i1</i>	Enter day of month in dd format
<i>s1</i>	Enter hour, minutes, seconds as HH:MM:SS
end-time	(Optional) Show messages from logfile up to a given end-time
<i>i2</i>	(Optional) Enter year in YYYY format
<i>s2</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>i3</i>	(Optional) Enter day of month in dd format
<i>s3</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS

### Command Mode

- /exec

# show logging loopback

show logging loopback

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
loopback	Show logging loopback configuration

## Command Mode

- /exec

# show logging module

show logging module

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
module	Show module(linecard) logging configuration

## Command Mode

- /exec

# show logging monitor

show logging monitor

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
monitor	Show monitor logging configuration

## Command Mode

- /exec

# show logging nvram

```
show logging nvram [ [ { last <i0> } ] [ __readonly__ [ <error> ] [ { TABLE_nvram <log> } ] ] ]
```

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
nvram	Show NVRAM log
last	(Optional) Show last few lines of nvram log
<i>i0</i>	(Optional) Enter number of lines to display
__readonly__	(Optional)
<i>error</i>	(Optional) error message
TABLE_nvram	(Optional) nvram log prints
<i>log</i>	(Optional) single log line

## Command Mode

- /exec

# show logging onboard

```
show logging onboard { counter-stats | endtime <s0> [ { counter-stats | internal { <dc3_options> } } ] | internal
{ <dc3_options> } | module <module> { counter-stats | endtime1 <s1> [ { counter-stats | internal {
<dc3_options> } } ] | internal { <dc3_options> } | starttime <s2> [ { counter-stats | endtime2 <s3> [ {
counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } } ] | starttime1 <s4> [ { counter-stats
| endtime3 <s5> [ { counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } } ] }
```

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
counter-stats	Show OBFL counter statistics
endtime	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s0</i>	End time format - mm/dd/yy-HH:MM:SS
internal	(Optional) Show Logging Onboard Internal
module	Show OBFL information for Module
<i>module</i>	Enter module number
endtime1	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s1</i>	End time format - mm/dd/yy-HH:MM:SS
starttime	Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s2</i>	Start time format - mm/dd/yy-HH:MM:SS
endtime2	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s3</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
starttime1	Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s4</i>	Start time format - mm/dd/yy-HH:MM:SS
endtime3	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s5</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
<i>dc3_options</i>	(Optional) dc3 options

## Command Mode

- /exec



## show logging onboard

```
show logging onboard [ card-first-power-on | card-boot-history | <common_options> | endtime <s0> [ {
<common_options> | error-stats [ port <i0> ] } ] | error-stats [ port1 <i1> ] | module <module> [
<common_options> | endtime1 <s1> [ { <common_options> | error-stats [ port3 <i3> ] } ] | error-stats [ port4
<i4> ] | starttime <s2> [ { <common_options> | endtime2 <s3> [ { <common_options> | error-stats [ port6
<i6> ] } ] | error-stats [ port7 <i7> ] } ] | card-first-power-on | card-boot-history ] | obfl-logs | starttime1 <s4>
[ { <common_options> | endtime3 <s5> [ { <common_options> | error-stats [ port8 <i8> ] } ] | error-stats [
port9 <i9> ] } ] | credit-loss [ module <module> [ last <last_no> { minutes | hours | days } ] | last <last_no>
{ minutes | hours | days } ] | flow-control { pause-count [ module <module> [ last <last_no> { minutes | hours
| days } ] | last <last_no> { minutes | hours | days } ] | pause-events [ module <module> [ last <last_no> {
minutes | hours | days } ] | last <last_no> { minutes | hours | days } ] | request-timeout [ module <module> ]
| timeout-drops [ module <module> [ port10 <i10> [ last <last_no> { minutes | hours | days } ] | last <last_no>
{ minutes | hours | days } ] | last <last_no> { minutes | hours | days } } ] }
```

### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
card-first-power-on	(Optional) show card first power on information
card-boot-history	(Optional) show card boot history
endtime	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s0</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
error-stats	(Optional) Show OBFL error statistics
port	(Optional) Show OBFL error statistics for a port
<i>i0</i>	(Optional)
<i>common_options</i>	(Optional) give the options
port1	(Optional) Show OBFL error statistics for a port
<i>i1</i>	(Optional)
module	(Optional) Show OBFL information for Module
<i>module</i>	(Optional) Enter module number
endtime1	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s1</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port3	(Optional) Show OBFL error statistics for a port
<i>i3</i>	(Optional)

port4	(Optional) Show OBFL error statistics for a port
<i>i4</i>	(Optional)
starttime	(Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s2</i>	(Optional) Start time format - mm/dd/yy-HH:MM:SS
endtime2	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s3</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port6	(Optional) Show OBFL error statistics for a port
<i>i6</i>	(Optional)
port7	(Optional) Show OBFL error statistics for a port
<i>i7</i>	(Optional)
starttime1	(Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s4</i>	(Optional) Start time format - mm/dd/yy-HH:MM:SS
endtime3	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s5</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port8	(Optional) Show OBFL error statistics for a port
<i>i8</i>	(Optional)
port9	(Optional) Show OBFL error statistics for a port
<i>i9</i>	(Optional)
obfl-logs	(Optional) Show OBFL Tech Support Log.
timeout-drops	(Optional) Show OBFL Timeout Drops logs
port10	(Optional) Show OBFL statistics per port basis
<i>i10</i>	(Optional)
credit-loss	(Optional) Show OBFL Credit Loss logs
last	(Optional) Show last min/hour/day logs
<i>last_no</i>	(Optional) Duration in min/hrs/day
minutes	(Optional) entry in minutes
hours	(Optional) entry in hours
days	(Optional) entry in days
request-timeout	(Optional) Show OBFL request timeout log

flow-control	(Optional) Show OBFL Flow Control log
pause-count	(Optional) Show Flow Control Pause Count Logs
pause-events	(Optional) Show Flow Control Pause Event Logs

**Command Mode**

- /exec

# show logging onboard kernel-trace

show logging onboard kernel-trace

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
kernel-trace	Show OBFL Kernel Trace

## Command Mode

- /exec

# show logging origin-id

show logging origin-id

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
origin-id	Show logging origin id configuration

## Command Mode

- /exec

# show logging pending-diff

show logging pending-diff

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
pending-diff	server address pending configuration diff

## Command Mode

- /exec

# show logging pending

show logging pending

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
pending	server address pending configuration

## Command Mode

- /exec

# show logging rate-limit

show logging rate-limit

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
rate-limit	Show rate limit configuration

## Command Mode

- /exec



# show logging rfc-strict

show logging rfc-strict

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
rfc-strict	Show RFC to which messages are compliant

## Command Mode

- /exec

# show logging server

```
show logging server [ __readonly__ [ <server_status> ] [ { TABLE_logserv <server> <forwarding> <severity>
<facility> <vrf> <port> [ <transport> } } ] ] ]
```

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
server	Show server logging configuration
__readonly__	(Optional)
<i>server_status</i>	(Optional) logging server configured
TABLE_logserv	(Optional) output of show logging server
<i>server</i>	(Optional) remote server address
<i>forwarding</i>	(Optional) remote server forwarding
<i>severity</i>	(Optional) remote server severity
<i>facility</i>	(Optional) remote server facility
<i>vrf</i>	(Optional) remote server vrf
<i>port</i>	(Optional) remote server port
<i>transport</i>	(Optional) remote server transport

## Command Mode

- /exec

# show logging session status

show logging session status

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
session	Show logging session status
status	Show logging session status

## Command Mode

- /exec

# show logging source-interface

show logging source-interface

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
source-interface	Show logging source-interface configuration

## Command Mode

- /exec

# show logging status

show logging status

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
status	Show logging status

## Command Mode

- /exec

# show logging timestamp

show logging timestamp

## Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
timestamp	Show logging timestamp configuration

## Command Mode

- /exec

# show login on-failure log

```
show login on-failure log [ __readonly__ [ <status> ] ]
```

## Syntax Description

show	show
login	login
on-failure	authentication failure
log	Log
__readonly__	(Optional)
<i>status</i>	(Optional) login on failure log enabled or disabled

## Command Mode

- /exec

# show login on-successful log

show login on-successful log [ \_\_readonly\_\_ [ <status> ] ]

## Syntax Description

show	show
login	login
on-successful	authentication successful
log	Log
__readonly__	(Optional)
<i>status</i>	(Optional) login on successful log enabled or disabled

## Command Mode

- /exec





## M Show Commands

---

- [show mac-list](#), on page 1753
- [show mac address-table](#), on page 1754
- [show mac address-table](#), on page 1756
- [show mac address-table aging-time](#), on page 1758
- [show mac address-table count](#), on page 1759
- [show mac address-table count es](#), on page 1761
- [show mac address-table learning-mode](#), on page 1762
- [show mac address-table loop-detect](#), on page 1763
- [show mac address-table multicast](#), on page 1764
- [show mac address-table notification mac-move](#), on page 1765
- [show mac scalar](#), on page 1766
- [show macsec mka](#), on page 1767
- [show macsec mka session](#), on page 1768
- [show macsec mka statistics](#), on page 1771
- [show macsec policy](#), on page 1776
- [show macsec secy statistics](#), on page 1777
- [show maintenance maint-delay](#), on page 1781
- [show maintenance on-reload reset-reasons](#), on page 1782
- [show maintenance profile](#), on page 1783
- [show maintenance snapshot-delay](#), on page 1784
- [show maintenance timeout](#), on page 1785
- [show module](#), on page 1786
- [show module bandwidth-fairness](#), on page 1789
- [show module uptime](#), on page 1790
- [show monitor](#), on page 1791
- [show mpls forwarding statistics](#), on page 1792
- [show mpls interfaces](#), on page 1794
- [show mpls interfaces detail](#), on page 1795
- [show mpls interfaces statistics](#), on page 1796
- [show mpls ip bindings](#), on page 1797
- [show mpls ip bindings summary](#), on page 1800
- [show mpls ip ttl](#), on page 1801
- [show mpls label range](#), on page 1802

- [show mpls load-sharing](#), on page 1803
- [show mpls oam echo statistics](#), on page 1804
- [show mpls static binding](#), on page 1806
- [show mpls static binding](#), on page 1808
- [show mpls static trace](#), on page 1810
- [show mpls strip labels](#), on page 1811
- [show mpls switching](#), on page 1812
- [show mpls switching clients](#), on page 1816
- [show mvpn bgp mdt](#), on page 1818
- [show mvpn mdt encap](#), on page 1819
- [show mvpn mdt route](#), on page 1820

# show mac-list

```
show mac-list { [ { <maclist-name> | <maclist-cfg-name> } [ { seq <seq_no> | { <mac_addr> [ <mac_mask> ] } } ] ] } [ __readonly__ TABLE_mac_list <name> <seq> <action> <rule> ]
```

## Syntax Description

show	Show running system information
mac-list	Show mac-lists
<i>maclist-name</i>	(Optional) Name of mac-list
<i>maclist-cfg-name</i>	(Optional) Known mac-list name
seq	(Optional) Sequence number
<i>seq_no</i>	(Optional) Sequence number
<i>mac_addr</i>	(Optional) MAC address
<i>mac_mask</i>	(Optional) MAC mask
<i>__readonly__</i>	(Optional)
TABLE_mac_list	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

## Command Mode

- /exec

## show mac address-table

```
show mac address-table <module> [ count ] [ static | dynamic | secure ] [ { [ address1 <mac-addr> | { switch-id
<swid> [ sub-switch-id <sswid> ] } | vlan1 <id> | [ vdc1 <vdc> | <e-vdc> ] | fe1 <feid> ] + } | { [ address
<mac-addr> | interface <interface-name> | vlan <id> | [ vdc <vdc> | <e-vdc> ] | fe <feid> ] + } } [ hex ] [
__readonly__ <entrycount> <l2entry> <header> <pi_e> <age> <rm> <ifname> <sec> <ntfy> <type> ]
```

### Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
<i>module</i>	Module Number
count	(Optional) Number of entries
static	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
address	(Optional) address
address1	(Optional) address
<i>mac-addr</i>	(Optional) MAC Address
switch-id	(Optional) Remote Switch ID
<i>swid</i>	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
<i>sswid</i>	(Optional) Sub Switch ID
interface	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name
vlan	(Optional) VLAN
vlan1	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
vdc	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vdc1	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>vdc</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

<i>e-vdc</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>fe</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>fe1</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>feid</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>hex</i>	(Optional) display swid/sswid/lid in hex
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) Header
<i>pi_e</i>	(Optional) Primary Interface of EARL
<i>age</i>	(Optional) Last seen age in seconds
<i>rm</i>	(Optional) RM
<i>ifname</i>	(Optional) interface name as string
<i>sec</i>	(Optional) secure
<i>ntfy</i>	(Optional) notify
<i>entrycount</i>	(Optional) Number of L2 entries
<i>l2entry</i>	(Optional) L2 Entry String
<i>type</i>	(Optional) MAC type - Static or Dynamic

**Command Mode**

- /exec

## show mac address-table

```
show mac address-table [ static | dynamic | secure ] [ local ] [ { [ address1 <mac-addr> | { switch-id <swid>
[ sub-switch-id <sswid> ] } | vlan1 <id> ] + } | { [ address <mac-addr> | interface <interface-name> | vlan
<id> ] + } | { [ address2 <mac-addr> | interface1 <interface-name> | vni <vni-id> | [ peer-ip <peer-ipv4> |
peer-ipv6 <peer-ipv6> ] ] + } | { [ address3 <mac-addr> | interface2 <interface-name> | vni1 <vni-id> | es {
<esid-opt1> | <esid-opt2> | all } ] + } ] [ __readonly__ [ { TABLE_mac_address
<disp_mac_addr><disp_type><disp_vlan> [ <disp_is_static> ]
<disp_age><disp_is_secure><disp_is_ntfy><disp_port> } ] ]
```

### Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
static	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
local	(Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN
address	(Optional) address
address1	(Optional) address
address2	(Optional) address
address3	(Optional) address
<i>mac-addr</i>	(Optional) MAC Address
switch-id	(Optional) Remote Switch ID
<i>swid</i>	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
<i>sswid</i>	(Optional) Sub Switch ID
interface	(Optional) Interface
interface1	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name
interface2	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name

vlan	(Optional) VLAN
vlan1	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
vni	(Optional) VXLAN Network Identifier
vni1	(Optional) VXLAN Network Identifier
<i>vni-id</i>	(Optional) VXLAN Network Identifier
peer-ip	(Optional) VXLAN Peer IP Address
<i>peer-ipv4</i>	(Optional) VXLAN Peer IP Address
peer-ipv6	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
es	(Optional) EVPN Remote ESID
<i>esid-opt1</i>	(Optional) EE:EE:EE:EE:EE:EE:EE:EE:EE:EE ESID Option 1
<i>esid-opt2</i>	(Optional) EEEE.EEEE.EEEE.EEEE.EEEE ESID Option 2
all	(Optional) all ESIs
__readonly__	(Optional)
TABLE_mac_address	(Optional) Mac address table
<i>disp_is_static</i>	(Optional) Static/Dynamic

**Command Mode**

- /exec

## show mac address-table aging-time

show mac address-table aging-time [ *\_\_readonly\_\_* <age\_str> <age> ]

### Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
aging-time	Configured/default age
<i>__readonly__</i>	(Optional)
<i>age_str</i>	(Optional) Age info
<i>age</i>	(Optional) Age time

### Command Mode

- /exec



## show mac address-table count

```
show mac address-table count [ static | dynamic | secure ] [ local ] [ { [ interface <interface-name> | switch-id
<swid> [ sub-switch-id <sswid> ] } | vlan <id> ] + } | { [ interface1 <interface-name> | vni <vni-id> | [ peer-ip
<peer-ipv4> | peer-ipv6 <peer-ipv6> ] ] + } ] [ __readonly__ TABLE-macaddtblcount [ <id-out> ] [ <count_str>
] [ <total_cnt> ] [ <dyn_cnt> ] [ <otv_cnt> ] [ <static_cnt> ] [ <secure_cnt> ] ]
```

### Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
count	Number of MAC entries
static	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
local	(Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN
vlan	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
interface	(Optional) Interface
interface1	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name
switch-id	(Optional) Remote Switch ID
<i>swid</i>	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
<i>sswid</i>	(Optional) Sub Switch ID
vni	(Optional) VXLAN Network Identifier
<i>vni-id</i>	(Optional) VXLAN Network Identifier
peer-ip	(Optional) VXLAN Peer IP Address
<i>peer-ipv4</i>	(Optional) VXLAN Peer IP Address
peer-ipv6	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)

TABLE-macaddtblcount	(Optional) MAC Address Dynamic Count Table
<i>id-out</i>	(Optional) MAC Address Table VLAN ID
<i>count_str</i>	(Optional) Count info
<i>total_cnt</i>	(Optional) Total count
<i>dyn_cnt</i>	(Optional) Dynamic count
<i>otv_cnt</i>	(Optional) OTV count
<i>static_cnt</i>	(Optional) Static count
<i>secure_cnt</i>	(Optional) Secure count

**Command Mode**

- /exec

## show mac address-table count es

```
show mac address-table count es { <es-id> | <es-id2> | all } [ __readonly__ { [ <es-id> ] [ <count> ] [
TABLE_macaddtblcount <es-idx> <es-count> ] } ]
```

### Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
count	Number of MAC entries
es	EVPN Remote ESID
<i>es-id</i>	EE:EE:EE:EE:EE:EE:EE:EE:EE:EE ESID
<i>es-id2</i>	EEEE.EEEE.EEEE.EEEE.EEEE ESID
all	all ESIs
__readonly__	(Optional)
<i>es-id</i>	(Optional) Specific ESID
<i>count</i>	(Optional) Number of entries for specific ESID
TABLE_macaddtblcount	(Optional) Display all ESID and its count in mac table
<i>es-idx</i>	(Optional) ESID
<i>es-count</i>	(Optional) Number of entries

### Command Mode

- /exec

## show mac address-table learning-mode

```
show mac address-table learning-mode [ vlan <id> ] [ __readonly__ <learning_mode_str> <vlan_id>
<mode_str> ]
```

### Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
learning-mode	Learning Mode
vlan	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
<i>__readonly__</i>	(Optional)
<i>learning_mode_str</i>	(Optional) Learning Mode
<i>vlan_id</i>	(Optional) VLAN ID
<i>mode_str</i>	(Optional) Mode

### Command Mode

- /exec

# show mac address-table loop-detect

show mac address-table loop-detect [ \_\_readonly\_\_ <port\_loop\_detect> ]

## Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
loop-detect	Display Action for Mac Loop Detection
__readonly__	(Optional)
<i>port_loop_detect</i>	(Optional) Display Port Down Action Mac Loop Detect is enabled or disabled

## Command Mode

- /exec

## show mac address-table multicast

```
show mac address-table multicast [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ TABLE_mac [
<vlan-id> ] [ <mac-addr> ] [ <type> ] [ <age> ] [ TABLE_oif [ <oifs> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
mac	MAC configuration commands
address-table	MAC Address Table
multicast	mcast mac OIF Static Entry
vlan	(Optional) VLAN
<i>vlan</i>	(Optional) VLAN
bridge-domain	(Optional) BD
<i>bdid</i>	(Optional) BD
<i>__readonly__</i>	(Optional)
TABLE_mac	(Optional)
<i>vlan-id</i>	(Optional)
<i>mac-addr</i>	(Optional)
<i>type</i>	(Optional)
<i>age</i>	(Optional)
TABLE_oif	(Optional)
<i>oifs</i>	(Optional)

### Command Mode

- /exec

## show mac address-table notification mac-move

```
show mac address-table notification mac-move [ __readonly__ TABLE_mac_notif <disp_mm_status>
<disp_mm_triggers> <disp_macs_added> <disp_macs_moved> <disp_macs_removed> ]
```

### Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
notification	Display Notification Information
mac-move	Mac Move Notification
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_mac_notif</i>	(Optional) Mac address notification table
<i>disp_mm_status</i>	(Optional) Mac Move Status
<i>disp_mm_triggers</i>	(Optional) # of triggers
<i>disp_macs_added</i>	(Optional) Number of MACs added since system bring up
<i>disp_macs_removed</i>	(Optional) Number of MACs removed since system bring up
<i>disp_macs_moved</i>	(Optional) Number of MACs moved since system bring up

### Command Mode

- /exec

## show mac scalar

```
show mac scalar [ __readonly__ <cmnMACMoveAddress> <cmnMACMoveVlanNumber>
<cmnMACMoveFromPortId> <cmnMACMoveToPortId> <cmnMACMoveTime> ]
```

### Syntax Description

show	Show running system information
mac	MAC configuration commands
scalar	cmn mib scalars
__readonly__	(Optional)
<i>cmnMACMoveAddress</i>	(Optional) mac move address
<i>cmnMACMoveVlanNumber</i>	(Optional) mac vlan number
<i>cmnMACMoveFromPortId</i>	(Optional) from port id
<i>cmnMACMoveToPortId</i>	(Optional) to port id
<i>cmnMACMoveTime</i>	(Optional) move time

### Command Mode

- /exec



## show macsec mka

```
show macsec mka [ summary ] [ __readonly__ [ <macsec_status> ] [ TABLE_mka_summary <ifname>
<status> <cipher> <keyserver> <policy> <keychain> <fallback_keychain> ] ]
```

### Syntax Description

show	Show running system information
macsec	Show MACSEC information
mka	Show MKA information
summary	(Optional) Show MKA summary information
__readonly__	(Optional)
<i>macsec_status</i>	(Optional) Macsec status
TABLE_mka_summary	(Optional)
<i>ifname</i>	(Optional) Interface
<i>status</i>	(Optional) MACSEC Session status
<i>cipher</i>	(Optional) Operational MACSEC Cipher-suite
<i>keyserver</i>	(Optional) Is this acting as interface key-server
<i>policy</i>	(Optional) MACSEC Policy applied to interface
<i>keychain</i>	(Optional) Keychain associated with interface
<i>fallback_keychain</i>	(Optional) Keychain associated with interface

### Command Mode

- /exec



<i>sci</i>	(Optional) Interface local TxSCI
<i>ssci</i>	(Optional) Interface local TxSSCI
<i>port_id</i>	(Optional) MKA Port Identifier
<i>ckn</i>	(Optional) CAK Name
<i>mi</i>	(Optional) Member Identifier
<i>mn</i>	(Optional) Message Number
<i>policy</i>	(Optional) MACSEC Policy
<i>ks_prio</i>	(Optional) Key-server Priority
<i>cipher</i>	(Optional) MKA Cipher Suite
<i>cipher_operational</i>	(Optional) MKA Cipher Suite Operational
<i>window</i>	(Optional) Replay Window Size
<i>conf_offset</i>	(Optional) Confidentiality Offset
<i>conf_offset_operational</i>	(Optional) Confidentiality Offset Operational
<i>sak_status</i>	(Optional) SAK Status
<i>sak_an</i>	(Optional) SAK AN
<i>sak_ki</i>	(Optional) SAK KI
<i>sak_kn</i>	(Optional) SAK KN
<i>last_sak_rekey_time</i>	(Optional) Last SAK rekey
<i>peer_count</i>	(Optional) Peer Count
<i>mac_addr</i>	(Optional) Eapol Dest mac
<i>ether_type</i>	(Optional) Eapol ether type
TABLE_mka_peer_status	(Optional)
<i>peer_mi</i>	(Optional) Peer MI
<i>rxsci</i>	(Optional) RxSCI
<i>icv_status</i>	(Optional) Peer CAK
<i>last_rx_time</i>	(Optional) Latest Rx MKPDU
TABLE_mka_fallback	(Optional)
<i>fallback_ckn</i>	(Optional) Fallback CAK Name
<i>fallback_mi</i>	(Optional) Fallback Member Identifier

<i>fallback_mn</i>	(Optional) Fallback Message Number
TABLE_mka_fallback_peer	(Optional)
<i>fallback_peer_mi</i>	(Optional) Peer MI
<i>fallback_rxsci</i>	(Optional) RxSCI
<i>fallback_icv_status</i>	(Optional) Peer CAK
<i>fallback_last_rx_time</i>	(Optional) Latest Rx MKPDU
<i>sessions</i>	(Optional) Total number of Sessions
<i>active_sessions</i>	(Optional) Count of Active Sessions
<i>pending_sessions</i>	(Optional) Count of Pending Sessions

**Command Mode**

- /exec

# show macsec mka statistics

```
show macsec mka statistics [ interface <ifname> ] [ __readonly__ [ <macsec_status> ] [ TABLE_mka_intf_stats
[ [ <ifname2> ] [ TABLE_ca_stats [ [ <ca_stat_ckn> ] [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_tx> ] [ <mkpdu_stat_mkpdu_tx_distsak> ] [ <mkpdu_stat_mkpdu_rx> ] [
<mkpdu_stat_mkpdu_rx_distsak> ] ] ] ] [ TABLE_idb_stats [ [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_tx> ] [ <mkpdu_stat_mkpdu_tx_distsak> ] [ <mkpdu_stat_mkpdu_rx> ] [
<mkpdu_stat_mkpdu_rx_distsak> ] [ <idb_stat_mkpdu_tx_success> ] [ <idb_stat_mkpdu_tx_fail> ] [
<idb_stat_mkpdu_tx_pkt_build_fail> ] [ <idb_stat_mkpdu_no_tx_on_intf_down> ] [
<idb_stat_mkpdu_no_rx_on_intf_down> ] [ <idb_stat_mkpdu_rx_ca_notfound> ] [ <idb_stat_mkpdu_rx_error>
] [ <idb_stat_mkpdu_rx_success> ] [ <idb_stat_mkpdu_failure_rx_integrity_check_error> ] [
<idb_stat_mkpdu_failure_invalid_peer_mn_error> ] [ <idb_stat_mkpdu_failure_nonrecent_peerlist_mn_error>
] [ <idb_stat_mkpdu_failure_sakuse_kn_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_rx_not_set_error> ] [
<idb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_an_not_in_use_error> ] [
<idb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error> ] [
<idb_stat_mkpdu_failure_sakuse_eapol_ethertype_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_eapol_destmac_mismatch_error> ] [
<idb_stat_sak_failure_sak_generate_error> ] [ <idb_stat_sak_failure_hash_generate_error> ] [
<idb_stat_sak_failure_sak_encryption_error> ] [ <idb_stat_sak_failure_sak_decryption_error> ] [
<idb_stat_sak_failure_ick_derivation_error> ] [ <idb_stat_sak_failure_kek_derivation_error> ] [
<idb_stat_sak_failure_invalid_macsec_capability_error> ] [ <idb_stat_macsec_failure_rx_sa_create_error>
] [ <idb_stat_macsec_failure_tx_sa_create_error> ] ] ] ] [ TABLE_mka_gbl_stats [ [ <session_secured> ] [
<session_deleted> ] [ <session_keepalive_timeout> ] [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_rx> ] [ <mkpdu_stat_mkpdu_rx_distsak> ] [ <mkpdu_stat_mkpdu_tx> ] [
<mkpdu_stat_mkpdu_tx_distsak> ] [ <mka_error_session_failure_bring_up_error> ] [
<mka_error_sak_failure_sak_generate_error> ] [ <mka_error_sak_failure_hash_generate_error> ] [
<mka_error_sak_failure_sak_encryption_error> ] [ <mka_error_sak_failure_sak_decryption_error> ] [
<mka_error_sak_failure_sak_cipher_mismatch_error> ] [ <mka_error_ca_failure_ick_derivation_error> ] [
<mka_error_ca_failure_kek_derivation_error> ] [ <mka_error_ca_failure_invalid_macsec_capability_error>
] [ <mka_error_macsec_failure_rx_sa_create_error> ] [ <mka_error_macsec_failure_tx_sa_create_error> ] [
<mka_error_mkpdu_failure_mkpdu_tx_error> ] [
<mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error> ] [
<mka_error_mkpdu_failure_mkpdu_invalid_peer_mn_error> ] [
<mka_error_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_error> ] [
<mka_error_mkpdu_failure_sakuse_kn_mismatch_error> ] [
<mka_error_mkpdu_failure_sakuse_rx_not_set_error> ] [
<mka_error_mkpdu_failure_sakuse_key_mi_mismatch_error> ] [
<mka_error_mkpdu_failure_sakuse_an_not_in_use_error> ] [
<mka_error_mkpdu_failure_sakuse_ks_rx_tx_not_set_error> ] [ <global_stats_mkpdu_rx_invalid_ckn> ] [
<global_stats_mkpdu_tx_pkt_build_fail> ] ] ] ] ]
```

## Syntax Description

show	Show running system information
macsec	Show MACSEC information

mka	Show MKA information
statistics	Show MKA statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
<i>__readonly__</i>	(Optional)
<i>macsec_status</i>	(Optional) Macsec status
TABLE_mka_intf_stats	(Optional) MKA Interface statistics
TABLE_ca_stats	(Optional) CA Statistics
<i>ca_stat_ckn</i>	(Optional) CA Statistics CKN
<i>ca_stat_pairwise_cak_rekey</i>	(Optional) CA Statistics Pairwise CAK Rekey
<i>sa_stat_sak_generated</i>	(Optional) SA Statistics SAK generated
<i>sa_stat_sak_rekey</i>	(Optional) SA Statistics SAK rekey
<i>sa_stat_sak_received</i>	(Optional) SA Statistics SAK received
<i>sa_stat_sak_response_rx</i>	(Optional) SA Statistics SAK response received
<i>mkpdu_stat_mkpdu_tx</i>	(Optional) MKPDU Statistics MKPDU Tx
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU Rx
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
TABLE_idb_stats	(Optional) IDB Statistics
<i>ca_stat_pairwise_cak_rekey</i>	(Optional) CA Statistics pairwise CAK rekey
<i>sa_stat_sak_generated</i>	(Optional) SA Statistics SAK generated
<i>sa_stat_sak_rekey</i>	(Optional) SA Statistics SAK rekey
<i>sa_stat_sak_received</i>	(Optional) SA Statistics SAK received
<i>sa_stat_sak_response_rx</i>	(Optional) SA Statistics SAK response received
<i>mkpdu_stat_mkpdu_tx</i>	(Optional) MKPDU Statistics MKPDU Tx
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU Rx
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
<i>idb_stat_mkpdu_tx_success</i>	(Optional) IDB Statistics MKPDU Tx success

<i>idb_stat_mkpdu_tx_fail</i>	(Optional) IDB Statistics MKPDU Tx fail
<i>idb_stat_mkpdu_tx_pkt_build_fail</i>	(Optional) IDB Statistics MKPDU Tx packet build fail
<i>idb_stat_mkpdu_no_tx_on_intf_down</i>	(Optional) IDB Statistics MKPDU no Tx on interface down
<i>idb_stat_mkpdu_no_rx_on_intf_down</i>	(Optional) IDB Statistics MKPDU no Rx on interface down
<i>idb_stat_mkpdu_rx_ca_notfound</i>	(Optional) IDB Statistics MKPDU Rx CA not found
<i>idb_stat_mkpdu_rx_error</i>	(Optional) IDB Statistics MKPDU Rx error
<i>idb_stat_mkpdu_rx_success</i>	(Optional) IDB Statistics MKPDU Rx success
<i>iclb_stat_mkpdu_failure_rx_integrity_check_error</i>	(Optional) IDB Statistics - MKPDU failure - Rx integrity check error
<i>iclb_stat_mkpdu_failure_invalid_peer_mn_error</i>	(Optional) IDB Statistics - MKPDU failure - invalid peer MN error
<i>iclb_stat_mkpdu_failure_nonrecent_peerlist_mn_error</i>	(Optional) IDB Statistics - MKPDU failure - non recent peerlist MN error
<i>iclb_stat_mkpdu_failure_sakuse_kn_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse KN mismatch error
<i>iclb_stat_mkpdu_failure_sakuse_rx_not_set_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse Rx not set error
<i>iclb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse key MI mismatch error
<i>iclb_stat_mkpdu_failure_sakuse_an_not_in_use_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse AN not in use error
<i>iclb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse KS Rx Tx not set error
<i>iclb_stat_mkpdu_failure_sakuse_eapol_etype_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL ethertype mismatch error
<i>iclb_stat_mkpdu_failure_sakuse_eapol_destmac_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL destMAC mismatch error
<i>idb_stat_sak_failure_sak_generate_error</i>	(Optional) IDB Statistics - SAK failure - SAK generate error
<i>idb_stat_sak_failure_hash_generate_error</i>	(Optional) IDB Statistics - SAK failure - Hash generate error
<i>idb_stat_sak_failure_sak_encryption_error</i>	(Optional) IDB Statistics - SAK failure - SAK encryption error
<i>idb_stat_sak_failure_sak_decryption_error</i>	(Optional) IDB Statistics - SAK failure - SAK decryption error
<i>idb_stat_sak_failure_ick_derivation_error</i>	(Optional) IDB Statistics - SAK failure - ICK derivation error
<i>idb_stat_sak_failure_kek_derivation_error</i>	(Optional) IDB Statistics - SAK failure - KEK derivation error
<i>iclb_stat_sak_failure_invalid_macsec_capability_error</i>	(Optional) IDB Statistics - SAK failure - invalid MACsec capability error

<i>idb_stat_macsec_failure_rx_sa_create_error</i>	(Optional) IDB Statistics - SAK failure - Rx SA create error
<i>idb_stat_macsec_failure_tx_sa_create_error</i>	(Optional) IDB Statistics - SAK failure - Tx SA create error
TABLE_mka_gbl_stats	(Optional) MKA Global Statistics
<i>session_secured</i>	(Optional) Session secured Events
<i>session_deleted</i>	(Optional) Session deleted Events
<i>session_keepalive_timeout</i>	(Optional) Session keepalive timeout Events
<i>ca_stat_pairwise_cak_rekey</i>	(Optional) CA Statistics pairwise CAK rekey
<i>sa_stat_sak_generated</i>	(Optional) SA Statistics SAK generated
<i>sa_stat_sak_rekey</i>	(Optional) SA Statistics SAK rekey
<i>sa_stat_sak_received</i>	(Optional) SA Statistics SAK received
<i>sa_stat_sak_response_rx</i>	(Optional) SA Statistics SAK response received
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU received
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU received distributed SAK
<i>mkpdu_stat_mkpdu_tx</i>	(Optional) MKPDU Statistics MKPDU transmitted
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU transmitted distributed SAK
<i>mka_error_session_failure_bring_up_error</i>	(Optional) MKA Error - Session failure - Bring up error
<i>mka_error_sak_failure_sak_generate_error</i>	(Optional) MKA Error - SAK failure - SAK generate error
<i>mka_error_sak_failure_hash_generate_error</i>	(Optional) MKA Error - SAK failure - Hash generate error
<i>mka_error_sak_failure_sak_encryption_error</i>	(Optional) MKA Error - SAK failure - SAK encryption error
<i>mka_error_sak_failure_sak_decryption_error</i>	(Optional) MKA Error - SAK failure - SAK decryption error
<i>mka_error_sak_failure_sak_cipher_mismatch_error</i>	(Optional) MKA Error - SAK failure - SAK Cipher mismatch error
<i>mka_error_ca_failure_ick_derivation_error</i>	(Optional) MKA Error - CA failure - ICK derivation error
<i>mka_error_ca_failure_kek_derivation_error</i>	(Optional) MKA Error - CA failure - KEK derivation error
<i>mka_error_ca_failure_invalid_macsec_capability_error</i>	(Optional) MKA Error - CA failure - Invalid MACsec capability error
<i>mka_error_macsec_failure_rx_sa_create_error</i>	(Optional) MKA Error - MACsec failure - Rx SA create error
<i>mka_error_macsec_failure_tx_sa_create_error</i>	(Optional) MKA Error - MACsec failure - Tx SA create error
<i>mka_error_mkpdu_failure_mkpdu_tx_error</i>	(Optional) MKA Error - MKPDU failure - MKPDU Tx error
<i>mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error</i>	(Optional) MKA Error - MKPDU failure - MKPDU Rx integrity check error



<i>mka_enor_mkpdu_failure_mkpdu_invalid_peer_mn_enor</i>	(Optional) MKA Error - MKPDU failure - invalid peer MN error
<i>mka_enor_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_enor</i>	(Optional) MKA Error - MKPDU failure - non recent peerlist MN error
<i>mka_enor_mkpdu_failure_sakuse_kn_mismatch_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse KN mismatch error
<i>mka_enor_mkpdu_failure_sakuse_rx_not_set_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse Rx not set error
<i>mka_enor_mkpdu_failure_sakuse_key_mi_mismatch_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse key MI mismatch error
<i>mka_enor_mkpdu_failure_sakuse_an_not_in_use_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse AN not in use error
<i>mka_enor_mkpdu_failure_sakuse_ks_rx_tx_not_set_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse KS Rx Tx not set error
<i>global_stats_mkpdu_rx_invalid_ckn</i>	(Optional) Global Statistics MKPDU received invalid CKN
<i>global_stats_mkpdu_tx_pkt_build_fail</i>	(Optional) Global Statistics Transmit Pkt build fail
<i>ifname2</i>	(Optional) MACSEC Interface Name

**Command Mode**

- /exec

## show macsec policy

```
show macsec policy [ <policy_name> ] [ __readonly__ { TABLE_macsec_policy <name> <cipher_suite>
<keyserver_priority> <window_size> <conf_offset> <security_policy> <sak-expiry-time>
<include_icv_indicator> } ]
```

### Syntax Description

show	Show running system information
macsec	Show MACSEC policy information
policy	Show MACSEC policy information
<i>policy_name</i>	(Optional) Name of MACSEC Policy
<i>__readonly__</i>	(Optional)
TABLE_macsec_policy	(Optional)
<i>name</i>	(Optional) MACSEC Policy Name
<i>cipher_suite</i>	(Optional) Cipher Suite
<i>keyserver_priority</i>	(Optional) KeyServer Priority
<i>window_size</i>	(Optional) Window Size
<i>conf_offset</i>	(Optional) Confidentiality Offset
<i>security_policy</i>	(Optional) Security Policy
<i>sak-expiry-time</i>	(Optional) SAK expiry on time interval
<i>include_icv_indicator</i>	(Optional) Include ICV indicator in MKPDUs

### Command Mode

- /exec

## show macsec secy statistics

```
show macsec secy statistics [ interface <ifname> ] [ __readonly__ [ <macsec_status> ] [ TABLE_statistics
<ifname2> [ <in_pkts_unicast_uncontrolled> ] [ <in_pkts_multicast_uncontrolled> ] [
<in_pkts_broadcast_uncontrolled> ] [ <in_rx_drop_pkts_uncontrolled> ] [ <in_rx_err_pkts_uncontrolled> ] [
<in_pkts_unicast_controlled> ] [ <in_pkts_multicast_controlled> ] [ <in_pkts_broadcast_controlled> ] [
<in_pkts_controlled> ] [ <in_rx_drop_pkts_controlled> ] [ <in_rx_err_pkts_controlled> ] [
<in_octets_uncontrolled> ] [ <in_octets_controlled> ] [ <input_rate_uncontrolled_pps> ] [
<input_rate_uncontrolled_bps> ] [ <input_rate_controlled_pps> ] [ <input_rate_controlled_bps> ] [
<out_pkts_unicast_uncontrolled> ] [ <out_pkts_multicast_uncontrolled> ] [ <out_pkts_broadcast_uncontrolled>
] [ <out_rx_drop_pkts_uncontrolled> ] [ <out_rx_err_pkts_uncontrolled> ] [ <out_pkts_unicast_controlled>
] [ <out_pkts_multicast_controlled> ] [ <out_pkts_broadcast_controlled> ] [ <out_pkts_controlled> ] [
<out_rx_drop_pkts_controlled> ] [ <out_rx_err_pkts_controlled> ] [ <out_octets_uncontrolled> ] [
<out_octets_controlled> ] [ <out_octets_common> ] [ <output_rate_uncontrolled_pps> ] [
<output_rate_uncontrolled_bps> ] [ <output_rate_controlled_pps> ] [ <output_rate_controlled_bps> ] [
<in_pkts_transform_error> ] [ <in_pkts_control> ] [ <in_pkts_untagged> ] [ <in_pkts_no_tag> ] [
<in_pkts_badtag> ] [ <in_pkts_no_sci> ] [ <in_pkts_unknown_sci> ] [ <in_pkts_tagged_ctrl> ] [
<out_pkts_transform_error> ] [ <out_pkts_control> ] [ <out_pkts_untagged> ] [ TABLE_rx_sa_an <rx_sa_an>
] [ <in_pkts_unchecked> ] [ <in_pkts_delayed> ] [ <in_pkts_late> ] [ <in_pkts_ok> ] [ <in_pkts_invalid> ] [
<in_pkts_not_valid> ] [ <in_pkts_not_using_sa> ] [ <in_pkts_unused_sa> ] [ <in_octets_decrypted> ] [
<in_octets_validated> ] [ TABLE_tx_sa_an <tx_sa_an> [ <out_pkts_encrypted_protected> ] [
<out_pkts_too_long> ] [ <out_pkts_sa_not_inuse> ] [ <out_octets_encrypted_protected> ] ] ] ]
```

### Syntax Description

show	Show running system information
macsec	Show MACSEC information
secy	Show MACSEC secy entity information
statistics	Show MACSEC secy statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
<i>__readonly__</i>	(Optional)
<i>macsec_status</i>	(Optional) Macsec status
TABLE_statistics	(Optional) MACsec secy statistics
<i>in_pkts_unicast_uncontrolled</i>	(Optional) In Pkts Unicast Uncontrolled
<i>in_pkts_multicast_uncontrolled</i>	(Optional) In Pkts Multicast Uncontrolled
<i>in_pkts_broadcast_uncontrolled</i>	(Optional) In Pkts Broadcast Uncontrolled
<i>in_rx_drop_pkts_uncontrolled</i>	(Optional) In Rx Drop Pkts Uncontrolled
<i>in_rx_err_pkts_uncontrolled</i>	(Optional) In Rx Err Pkts Uncontrolled

<i>in_pkts_unicast_controlled</i>	(Optional) In Pkts Unicast Controlled
<i>in_pkts_multicast_controlled</i>	(Optional) In Pkts Multicast Controlled
<i>in_pkts_broadcast_controlled</i>	(Optional) In Pkts Broadcast Controlled
<i>in_pkts_controlled</i>	(Optional) In Pkts Controlled
<i>in_rx_drop_pkts_controlled</i>	(Optional) In Rx Drop Pkts Controlled
<i>in_rx_err_pkts_controlled</i>	(Optional) In Rx Err Pkts Controlled
<i>in_octets_uncontrolled</i>	(Optional) In Octets Uncontrolled
<i>in_octets_controlled</i>	(Optional) In Octets Controlled
<i>input_rate_uncontrolled_bps</i>	(Optional) Input Rate Uncontrolled BPS
<i>input_rate_uncontrolled_pps</i>	(Optional) Input Rate Uncontrolled PPS
<i>input_rate_controlled_bps</i>	(Optional) Input Rate Controlled BPS
<i>input_rate_controlled_pps</i>	(Optional) Input Rate Controlled PPS
<i>out_pkts_unicast_uncontrolled</i>	(Optional) Out Pkts Unicast Uncontrolled
<i>out_pkts_multicast_uncontrolled</i>	(Optional) Out Pkts Multicast Uncontrolled
<i>out_pkts_broadcast_uncontrolled</i>	(Optional) Out Pkts Broadcast Uncontrolled
<i>out_rx_drop_pkts_uncontrolled</i>	(Optional) Out Rx Drop Pkts Uncontrolled
<i>out_rx_err_pkts_uncontrolled</i>	(Optional) Out Rx Err Pkts Uncontrolled
<i>out_pkts_unicast_controlled</i>	(Optional) Out Pkts Unicast Controlled
<i>out_pkts_multicast_controlled</i>	(Optional) Out Pkts Multicast Controlled
<i>out_pkts_broadcast_controlled</i>	(Optional) Out Pkts Broadcast Controlled
<i>out_pkts_controlled</i>	(Optional) Out Pkts Controlled
<i>out_rx_drop_pkts_controlled</i>	(Optional) Out Rx Drop Pkts Controlled
<i>out_rx_err_pkts_controlled</i>	(Optional) Out Rx Err Pkts Controlled
<i>out_octets_uncontrolled</i>	(Optional) Out Octets Uncontrolled
<i>out_octets_controlled</i>	(Optional) Out Octets Controlled
<i>out_octets_common</i>	(Optional) Out Octets Common
<i>output_rate_uncontrolled_bps</i>	(Optional) Output Rate Uncontrolled BPS
<i>output_rate_uncontrolled_pps</i>	(Optional) Output Rate Uncontrolled PPS
<i>output_rate_controlled_bps</i>	(Optional) Output Rate Controlled BPS

<i>output_rate_controlled_pps</i>	(Optional) Output Rate Controlled PPS
<i>in_pkts_transform_error</i>	(Optional) In Pkts Transform Error
<i>in_pkts_control</i>	(Optional) In Pkts Control
<i>in_pkts_untagged</i>	(Optional) In Pkts Untagged
<i>in_pkts_no_tag</i>	(Optional) In Pkts No Tag
<i>in_pkts_badtag</i>	(Optional) In Pkts Bad Tag
<i>in_pkts_no_sci</i>	(Optional) In Pkts No SCI
<i>in_pkts_unknown_sci</i>	(Optional) In Pkts Unknown SCI
<i>in_pkts_tagged_ctrl</i>	(Optional) In Pkts Tagged Control
<i>out_pkts_transform_error</i>	(Optional) Out Pkts Transform Error
<i>out_pkts_control</i>	(Optional) Out Pkts Control
<i>out_pkts_untagged</i>	(Optional) Out Pkts Untagged
TABLE_rx_sa_an	(Optional) MACsec secy rx_sa_an statistics
<i>rx_sa_an</i>	(Optional) Rx SA AN
<i>in_pkts_unchecked</i>	(Optional) In Pkts Unchecked
<i>in_pkts_delayed</i>	(Optional) In Pkts Delayed
<i>in_pkts_late</i>	(Optional) In Pkts Late
<i>in_pkts_ok</i>	(Optional) In Pkts OK
<i>in_pkts_invalid</i>	(Optional) In Pkts Invalid
<i>in_pkts_not_valid</i>	(Optional) In Pkts not Valid
<i>in_pkts_not_using_sa</i>	(Optional) In Pkts not using SA
<i>in_pkts_unused_sa</i>	(Optional) In Pkts Unused SA
<i>in_octets_decrypted</i>	(Optional) In Octets Decrypted
<i>in_octets_validated</i>	(Optional) In Octets Validated
TABLE_tx_sa_an	(Optional) MACsec secy tx_sa_an statistics
<i>tx_sa_an</i>	(Optional) Tx SA AN
<i>out_pkts_encrypted_protected</i>	(Optional) Out Pkts Encrypted Protected
<i>out_pkts_too_long</i>	(Optional) Out Pkts too Long
<i>out_pkts_sa_not_inuse</i>	(Optional) Out Pkts SA not in use

<i>out_octets_encrypted_protected</i>	(Optional) Out octets Encrypted Protected
<i>ifname2</i>	(Optional) MACSEC Interface Name

**Command Mode**

- /exec

# show maintenance maint-delay

show maintenance maint-delay [ \_\_readonly\_\_ <delay> ]

## Syntax Description

show	Show running system information
maintenance	maintenance
maint-delay	maintenance mode CLI release delay value
__readonly__	(Optional)
<i>delay</i>	(Optional) delay value in seconds

## Command Mode

- /exec

## show maintenance on-reload reset-reasons

```
show maintenance on-reload reset-reasons [ __readonly__ [ TABLE_reset_reason <reset_reason> ] <rr_bitmap> ]
```

### Syntax Description

show	Show running system information
maintenance	maintenance
on-reload	on reload maintenance mode configuration
reset-reasons	system reset reasons
<i>__readonly__</i>	(Optional)
<i>TABLE_reset_reason</i>	(Optional)
<i>rr_bitmap</i>	(Optional) reset reason bitmap
<i>reset_reason</i>	(Optional) system reset reason

### Command Mode

- /exec



# show maintenance profile

```
show maintenance profile [ <mode> ] [ __readonly__ TABLE_profile <name> [ TABLE_cfg <cfg> ] ]
```

## Syntax Description

show	Show running system information
maintenance	maintenance
profile	maintenance profile
<i>mode</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_profile	(Optional)
<i>name</i>	(Optional) profile name
TABLE_cfg	(Optional)
<i>cfg</i>	(Optional) profile config

## Command Mode

- /exec

# show maintenance snapshot-delay

show maintenance snapshot-delay [ \_\_readonly\_\_ <delay> ]

## Syntax Description

show	Show running system information
maintenance	maintenance
snapshot-delay	after_maintenance snapshot delay value
__readonly__	(Optional)
<i>delay</i>	(Optional) delay value in seconds

## Command Mode

- /exec

# show maintenance timeout

show maintenance timeout [ \_\_readonly\_\_ <timeout> ]

## Syntax Description

show	Show running system information
maintenance	maintenance
timeout	timeout value
__readonly__	(Optional)
<i>timeout</i>	(Optional) timeout value

## Command Mode

- /exec

# show module

```
show module [ { <module> } | { <s0> [ <santa-cruz-range> ] } | { fabric [ <module> ] } ] [ __readonly__ {
TABLE_modinfo <modinf> <ports> <modtype> <model> <status> } [ { TABLE_modpwrinfo <modpwr>
<pwrstat> <reason> } ] [ { TABLE_modwwninfo <modwwn> <sw> <hw> <slottype> } [ { TABLE_modapplinfo
<modappl> <desc> <applver> } ] [ { TABLE_modmacinfo <modmac> <mac> <serialnum> } {
TABLE_moddiaginfo <mod> <diagstatus> } [ { TABLE_xbarinfo <xbarinf> <xbarports> <xbartype>
<xbarmodel> <xbarstatus> } ] [ { TABLE_xbarpwrinfo <xbarpwr> <xbarpwrstat> <xbarreason> } ] [ {
TABLE_xbarwwninfo <xbarwwn> <xbarsw> <xbarhw> <xbarwwnstr> } ] [ { TABLE_xbarmacinfo <xbarmac>
<xbarmacaddr> <xbarserialnum> } ] ] ]
```

## Syntax Description

show	Show running system information
module	Show module information
<i>module</i>	(Optional) Enter module number
<i>s0</i>	(Optional) Show xbar information
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
fabric	(Optional) Show fabric information
<u>__readonly__</u>	(Optional)
TABLE_modinfo	(Optional) Show Module info
<i>modinf</i>	(Optional) Module
<i>ports</i>	(Optional) Num Ports
<i>modtype</i>	(Optional) Module Type
<i>model</i>	(Optional) Model
<i>status</i>	(Optional) Status
TABLE_modpwrinfo	(Optional) Mod Pwr Info
<i>modpwr</i>	(Optional) Module
<i>pwrstat</i>	(Optional) Power Status
<i>reason</i>	(Optional) Reason
TABLE_modwwninfo	(Optional) Mod WWN Info
<i>modwwn</i>	(Optional) Module
<i>sw</i>	(Optional) SW Ver
<i>hw</i>	(Optional) HW Ver

<i>slottype</i>	(Optional) Slot
TABLE_modapplinfo	(Optional) Mod Appl image info
<i>modappl</i>	(Optional) Module
<i>desc</i>	(Optional) Image desc
<i>applver</i>	(Optional) Version
TABLE_modmacinfo	(Optional) Mod MAC Info
<i>modmac</i>	(Optional) Module
<i>mac</i>	(Optional) MAC
<i>serialnum</i>	(Optional) Serial Num
TABLE_moddiaginfo	(Optional) Mod diag info
<i>mod</i>	(Optional) Module
<i>diagstatus</i>	(Optional) Diag status
TABLE_xbarinfo	(Optional) Show xbar info
<i>xbarinf</i>	(Optional) Module
<i>xbarports</i>	(Optional) Num Ports
<i>xbartype</i>	(Optional) Module Type
<i>xbarmodel</i>	(Optional) Model
<i>xbarstatus</i>	(Optional) Status
TABLE_xbarpwrinfo	(Optional) Xbar Pwr Info
<i>xbarpwr</i>	(Optional) Module
<i>xbarpwrstat</i>	(Optional) Power Status
<i>xbarreason</i>	(Optional) Reason
TABLE_xbarwwninfo	(Optional) Xbar WWN Info
<i>xbarwwn</i>	(Optional) Module
<i>xbarsw</i>	(Optional) SW Ver
<i>xbarhw</i>	(Optional) HW Ver
<i>xbarwwnstr</i>	(Optional) WWN
TABLE_xbarmacinfo	(Optional) Xbar MAC Info
<i>xbarmac</i>	(Optional) Module

<i>xbarmacaddr</i>	(Optional) MAC
<i>xbarserialnum</i>	(Optional) Serial Num

**Command Mode**

- /exec

# show module bandwidth-fairness

```
show module <module> bandwidth-fairness [ __readonly__ { TABLE_fairness <statement> } ]
```

## Syntax Description

show	Show running system information
module	Show module information
<i>module</i>	Enter module number
bandwidth-fairness	Show bandwidth fairness status
__readonly__	(Optional)
TABLE_fairness	(Optional)
<i>statement</i>	(Optional)

## Command Mode

- /exec

# show module uptime

```
show module uptime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup> <minutesup>
<secondsup> } ]
```

## Syntax Description

show	Show running system information
module	Show module information
uptime	Show how long the module has been up and running
__readonly__	(Optional)
TABLE_uptimeinf	(Optional) Show uptime info
<i>slot</i>	(Optional) Slot
<i>starttime</i>	(Optional) Start Time
<i>daysup</i>	(Optional) Days Up
<i>hoursup</i>	(Optional) Hours Up
<i>minutesup</i>	(Optional) Minutes Up
<i>secondsup</i>	(Optional) Seconds Up

## Command Mode

- /exec



# show monitor

show monitor [ *\_\_readonly\_\_* *TABLE\_session* <session\_number> <state> <state\_reason> <description> ]

## Syntax Description

<i>show</i>	Show running system information
<i>monitor</i>	Show Ethernet SPAN information
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_session</i>	(Optional) show monitor
<i>session_number</i>	(Optional) session id
<i>state</i>	(Optional) State
<i>state_reason</i>	(Optional) State reason
<i>description</i>	(Optional) Session Description

## Command Mode

- /exec

## show mpls forwarding statistics

```
show mpls forwarding statistics [ interface { <interface> | all } ] [ __readonly__ { TABLE_mpls_stats [
<intf_name> ] <mpls_packets_sent> <mpls_bytes_sent> <mpls_packets_received> <mpls_bytes_received>
<mpls_packets_forwarded> <mpls_bytes_forwarded> <mpls_packets_originated> <mpls_bytes_originated>
<mpls_packets_consumed> <mpls_bytes_consumed> <mpls_packets_input_dropped>
<mpls_bytes_input_dropped> <mpls_packets_output_dropped> <mpls_bytes_output_dropped> } ]
```

### Syntax Description

show	Show running system information
mpls	MPLS information
forwarding	Display MPLS software forwarded
statistics	Traffic statistics
interface	(Optional) Interface specific information
<i>interface</i>	(Optional) Interface chosen to display statistics
all	(Optional) All interfaces
<i>__readonly__</i>	(Optional)
TABLE_mpls_stats	(Optional) MPLS forwarding statistics
<i>intf_name</i>	(Optional) Interface name
<i>mpls_packets_sent</i>	(Optional) mpls packet sent
<i>mpls_bytes_sent</i>	(Optional) mpls bytes sent
<i>mpls_packets_received</i>	(Optional) mpls packet received
<i>mpls_bytes_received</i>	(Optional) mpls bytes received
<i>mpls_packets_forwarded</i>	(Optional) mpls packet forwarded
<i>mpls_bytes_forwarded</i>	(Optional) mpls bytes forwarded
<i>mpls_packets_originated</i>	(Optional) mpls packet originated
<i>mpls_bytes_originated</i>	(Optional) mpls bytes originated
<i>mpls_packets_consumed</i>	(Optional) mpls packet consumed
<i>mpls_bytes_consumed</i>	(Optional) mpls bytes consumed
<i>mpls_packets_input_dropped</i>	(Optional) mpls packet input dropped
<i>mpls_bytes_input_dropped</i>	(Optional) mpls bytes input dropped
<i>mpls_packets_output_dropped</i>	(Optional) mpls packet output dropped

<i>mpls_bytes_output_dropped</i>	(Optional) mpls bytes output dropped
----------------------------------	--------------------------------------

**Command Mode**

- /exec

# show mpls interfaces

show mpls interfaces [ *\_\_readonly\_\_* *TABLE\_mpls\_interface* <intf> <oper> ]

## Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Display MPLS Interfaces
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_interface</i>	(Optional)
<i>intf</i>	(Optional)
<i>oper</i>	(Optional)

## Command Mode

- /exec

# show mpls interfaces detail

```
show mpls interfaces detail [ __readonly__ TABLE_mpls_interface_det <intf> <client_name> <oper_str>
<ls_id> <mpls_sublayer_name> <mpls_sublayer_id> ]
```

## Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Interfaces
detail	Detail
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_interface_det</i>	(Optional)
<i>intf</i>	(Optional)
<i>client_name</i>	(Optional)
<i>oper_str</i>	(Optional)
<i>ls_id</i>	(Optional)
<i>mpls_sublayer_name</i>	(Optional)
<i>mpls_sublayer_id</i>	(Optional)

## Command Mode

- /exec

## show mpls interfaces statistics

```
show mpls interfaces <ifname> statistics [ __readonly__ TABLE_mpls_interface_stats <intf> <enabled> [
<pkts_in> ] [ <bytes_in> ] [ <pkts_out> ] [ <bytes_out> ] ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Interfaces
<i>ifname</i>	Interface Name
statistics	statistics
<i>__readonly__</i>	(Optional)
TABLE_mpls_interface_stats	(Optional)
<i>intf</i>	(Optional)
<i>enabled</i>	(Optional)
<i>pkts_in</i>	(Optional)
<i>bytes_in</i>	(Optional)
<i>pkts_out</i>	(Optional)
<i>bytes_out</i>	(Optional)

### Command Mode

- /exec

## show mpls ip bindings

```
show mpls ip bindings [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ generic ] [ { <prefix> { <mask> |
<mask-length> } | <prefix-mask> } [ longer-prefix ] ] [ neighbor <addr> | local ] [ [ local-label <local-label>
[ local-to <local-label-max> ] ] ] [ remote-label <remote-label> [ remote-to <remote-label-max> ] ] ] [
advertisement-prefix-list | detail ] [ __readonly__ { TABLE_bnd [ <ldp_ctx> ] [ <llaf> ] [ {
TABLE_bnd_acl_list <oldstyle> <prefix_acl> <peer_acl> } ] [ { TABLE_bnd_rec <lib_addr> <lib_mask>
[ <lcl_bnd_rev> ] [ <no_route> ] [ <chkpt> ] [ <local_label> ] [ <withdraw> ] [ { TABLE_bnd_peer_list
<peer_ident> } ] [ <remote_label> ] [ <remote_lsr> ] [ <rem_lbl_in_use> ] [ <stale_gr> ] [
<advert_acl_pending> ] [ <peer_acl> ] [ <prefix_acl> } ] } ] ] ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	MPLS IP information
bindings	Show the MPLS IP Label Information Base (LIB)
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display LIB information in all VRFs
generic	(Optional) Display generic labels
<i>prefix</i>	(Optional) Destination prefix
<i>mask</i>	(Optional) Destination prefix mask
<i>mask-length</i>	(Optional) Mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
longer-prefix	(Optional) Include longer matches
neighbor	(Optional) Display labels from LDP neighbor
<i>addr</i>	(Optional) IP adjacency address
local	(Optional) Display only locally assigned labels
local-label	(Optional) Match locally assigned label values
<i>local-label</i>	(Optional) Locally assigned label value
local-to	(Optional) Label range
<i>local-label-max</i>	(Optional) Locally assigned label value

remote-label	(Optional) Match remotely assigned label values
<i>remote-label</i>	(Optional) Remotely assigned label value
remote-to	(Optional) Label range
<i>remote-label-max</i>	(Optional) Remotely assigned label value
advertisement-prefix-list	(Optional) Show advertisement prefix lists
detail	(Optional) Show detailed information
__readonly__	(Optional) Read Only
TABLE_bnd	(Optional) Show bindings or tib summary for a vrf
<i>ldp_ctx</i>	(Optional) LDP context
<i>llaf</i>	(Optional) Local label filtering spec
TABLE_bnd_acl_list	(Optional) Show advertisement access lists for default vrf
<i>oldstyle</i>	(Optional) Oldstyle assignment of prefix acls to entries
<i>prefix_acl</i>	(Optional) Prefix acl
<i>peer_acl</i>	(Optional) Peer acl
TABLE_bnd_rec	(Optional) Show bindings in a vrf
<i>lib_addr</i>	(Optional) LIB entry IP address
<i>lib_mask</i>	(Optional) LIB entry mask
<i>lcl_bnd_rev</i>	(Optional) Local binding revision for lib entry
<i>no_route</i>	(Optional) Displays if no route present for lib entry
<i>chkpt</i>	(Optional) Checkpoint state for lib entry
<i>local_label</i>	(Optional) Local label
<i>withdraw</i>	(Optional) Displays if label withdrawn or label withdraw sent
<i>remote_lsr</i>	(Optional) Remote binding label switched route for lib entry
<i>remote_label</i>	(Optional) Remote label for lib entry
<i>rem_lbl_in_use</i>	(Optional) Displays if out label is in use
<i>stale_gr</i>	(Optional) Displays if stale GR binding for lib entry
<i>advert_acl_pending</i>	(Optional) Displays if advert acl action pending for lib entry
<i>peer_acl</i>	(Optional) Advertisement acl: Peer acl name for lib entry
<i>prefix_acl</i>	(Optional) Advertisement acl: Prefix acl name for lib entry



TABLE_bnd_peer_list	(Optional) Show list of peers to which local label has been advertised
<i>peer_ident</i>	(Optional) Peer to which local label has been advertised

**Command Mode**

- /exec

## show mpls ip bindings summary

```
show mpls ip bindings summary [ __readonly__ { TABLE_bnd [ <total_prefixes> ] [ <assigned_bindings>
] [ <local_bindings> ] [ <rem_bindings> ] [ <total_rt_info> ] [ <current_prev_lbl_entries> ] [
<total_prev_lbl_entries> ] [ <current_prev_lbl_queues> ] [ <total_prev_lbl_queues> ] } ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	MPLS IP information
bindings	Show the MPLS IP Label Information Base (LIB)
summary	Show summary information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_bnd</i>	(Optional) Show bindings or tib summary for a vrf
<i>total_prefixes</i>	(Optional) Total number of prefixes
<i>assigned_bindings</i>	(Optional) Total number of assigned bindings
<i>total_rt_info</i>	(Optional) Total tib route info allocated
<i>local_bindings</i>	(Optional) Total number of locally assigned bindings
<i>rem_bindings</i>	(Optional) Total number of remote bindings
<i>current_prev_lbl_entries</i>	(Optional) Current number of previous tib remote label entries allocated
<i>total_prev_lbl_entries</i>	(Optional) Total number of previous tib remote label entries allocated
<i>current_prev_lbl_queues</i>	(Optional) Current number of previous tib remote label queues allocated
<i>total_prev_lbl_queues</i>	(Optional) Total number of previous tib remote label queues allocated

### Command Mode

- /exec

# show mpls ip ttl

```
show mpls ip ttl [ __readonly__ TABLE_mpls_ip_ttl <prop_or_exp> [ <forwarded> ] [ <local> ] [ <exp_count> ] ]
```

## Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	Display IP information
ttl	TTL related information
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_ip_ttl</i>	(Optional)
<i>prop_or_exp</i>	(Optional)
<i>forwarded</i>	(Optional)
<i>local</i>	(Optional)
<i>exp_count</i>	(Optional)

## Command Mode

- /exec

# show mpls label range

```
show mpls label range [ __readonly__ <dynamic-min> <dynamic-max> [ <static-min> <static-max> ] [
<srgb-min> <srgb-max> ] ]
```

## Syntax Description

show	Show running system information
mpls	MPLS configuration commands
label	Label properties
range	Label range
<i>__readonly__</i>	(Optional)
<i>dynamic-min</i>	(Optional)
<i>dynamic-max</i>	(Optional)
<i>static-min</i>	(Optional)
<i>static-max</i>	(Optional)
<i>srgb-min</i>	(Optional)
<i>srgb-max</i>	(Optional)

## Command Mode

- /exec

# show mpls load-sharing

```
show mpls load-sharing [ __readonly__ TABLE_mpls_load_sharing [ <label-ip> ] [ <label-only> ] ]
```

## Syntax Description

show	Show running system information
mpls	MPLS information
load-sharing	Show mpls load sharing options
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_load_sharing</i>	(Optional) Table for MPLS Load Sharing
<i>label-ip</i>	(Optional) Label IP load sharing
<i>label-only</i>	(Optional) Label only load sharing

## Command Mode

- /exec

## show mpls oam echo statistics

```
show mpls oam echo statistics [ summary ] [ __readonly__ <rq_sent> <rq_timeout> <rq_unsent> <rq_rcvd>
<rx_sent> <rx_unsent> <rx_rcvd> <rc_zero> <rc_one> <rc_two> <rc_three> <rc_four> <rc_five> <rc_six>
<rc_seven> <rc_eight> <rc_nine> <rc_ten> <rc_eleven> <rc_twelve> <rc_thirteen> <rc_fourteen>
<summary_flag> ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
oam	Display OAM information
echo	Echo request information
statistics	Detailed Echo packet statistics
summary	(Optional) Echo packet statistics summary
<i>__readonly__</i>	(Optional)
<i>rq_sent</i>	(Optional) Requests sent
<i>rq_timeout</i>	(Optional) Requests timeout
<i>rq_unsent</i>	(Optional) Requests unsent
<i>rq_rcvd</i>	(Optional) Requests received
<i>rx_sent</i>	(Optional) Replies sent
<i>rx_unsent</i>	(Optional) Replies unsent
<i>rx_rcvd</i>	(Optional) Replies received
<i>rc_zero</i>	(Optional) Return code zero
<i>rc_one</i>	(Optional) Return code one
<i>rc_two</i>	(Optional) Return code two
<i>rc_three</i>	(Optional) Return code three
<i>rc_four</i>	(Optional) Return code four
<i>rc_five</i>	(Optional) Return code five
<i>rc_six</i>	(Optional) Return code six
<i>rc_seven</i>	(Optional) Return code seven
<i>rc_eight</i>	(Optional) Return code eight

<i>rc_nine</i>	(Optional) Return code nine
<i>rc_ten</i>	(Optional) Return code ten
<i>rc_eleven</i>	(Optional) Return code eleven
<i>rc_twelve</i>	(Optional) Return code twelve
<i>rc_thirteen</i>	(Optional) Return code thirteen
<i>rc_fourteen</i>	(Optional) Return code fourteen
<i>summary_flag</i>	(Optional) Summary flag

**Command Mode**

- /exec

## show mpls static binding

```
show mpls static binding [ vrf { <vrf-name> | <vrf-known-name> } ] { { ipv4 [ <prefix> { <mask> |
<mask-length> } | <prefix-mask> ] [ local | remote ] [ nexthop <addr> ] [ inconsistency ] [ lsp <slb_name> ]
} | { ipv6 [ <ipv6-prefix> ] [ local | remote ] [ ipv6-nexthop <ipv6-addr> ] [ inconsistency ] } | all [ inconsistency
] } [ __readonly__ [ TABLE_slb [ <slb_name> ] [ <slb_prefix> ] [ <slb_mask> ] <slb_vrf> <slb_inlabel> [
<slb_type> ] [ TABLE_slb_outlbl_list [ <slb_nh_path_num> ] <slb_nhops> <slb_outlabel> ] [
<inconsistency_reason> ] ] ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	Show ipv4 static label bindings
ipv6	Show ipv6 static label bindings
all	Show all static label bindings
vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
local	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
remote	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
inconsistency	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>prefix</i>	(Optional) Destination ipv4 prefix
<i>mask</i>	(Optional) Destination ipv4 prefix mask
<i>mask-length</i>	(Optional) Ipv4 mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
nexthop	(Optional) Ipv4 next hop address
<i>addr</i>	(Optional) Ipv4 Next hop address
ipv6-nexthop	(Optional) Ipv6 next hop address
lsp	(Optional) LSP Name
__readonly__	(Optional) Read Only



TABLE_slb	(Optional) Show static label bindings for a given prefix
<i>slb_name</i>	(Optional) Name
<i>slb_prefix</i>	(Optional) Prefix
<i>slb_type</i>	(Optional) SLB Type
<i>slb_mask</i>	(Optional) Mask bits
<i>slb_vrf</i>	(Optional) VRF name for prefix
<i>slb_inlabel</i>	(Optional) Incoming label for prefix
TABLE_slb_outlbl_list	(Optional) Show static outgoing labels for prefix
<i>slb_nhop</i>	(Optional) Next-hop address
<i>slb_nh_path_num</i>	(Optional) Identifier for outgoing nexthop
<i>slb_outlabel</i>	(Optional) Outgoing label for next-hop address
<i>inconsistency_reason</i>	(Optional) Reason for inconsistency

**Command Mode**

- /exec

## show mpls static binding

```
show mpls static binding [ ipv4 ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ <prefix> { <mask> |
<mask-length> } | <prefix-mask> ] [ local | remote ] [ nexthop <addr> ] [ __readonly__ { TABLE_slb [
<slb_prefix> <slb_mask> ] <slb_vrf> <slb_inlabel> [ { TABLE_slb_outlbl_list <slb_nhop> <slb_outlabel>
} } ] ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	(Optional) Show ipv4 static label bindings
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>prefix</i>	(Optional) Destination prefix
<i>mask</i>	(Optional) Destination prefix mask
<i>mask-length</i>	(Optional) Mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
local	(Optional) Incoming (local) static label bindings
remote	(Optional) Outgoing (remote) static label bindings
nexthop	(Optional) Next hop address
<i>addr</i>	(Optional) Next hop address
__readonly__	(Optional) Read Only
TABLE_slb	(Optional) Show static label bindings for a given prefix
<i>slb_prefix</i>	(Optional) Prefix
<i>slb_mask</i>	(Optional) Mask bits
<i>slb_vrf</i>	(Optional) VRF name for prefix
<i>slb_inlabel</i>	(Optional) Incoming label for prefix
TABLE_slb_outlbl_list	(Optional) Show static outgoing labels for prefix

<i>slb_nhop</i>	(Optional) Next-hop address
<i>slb_outlabel</i>	(Optional) Outgoing label for next-hop address

**Command Mode**

- /exec

# show mpls static trace

show mpls static trace { error | warning | event } [ size ]

## Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Static Label Bindings
trace	MPLS static trace
error	MPLS static error trace
warning	MPLS static warning trace
event	MPLS static event trace
size	(Optional) trace buffer size in Kbytes

## Command Mode

- /exec

# show mpls strip labels

```
show mpls strip labels [ all | static | dynamic | <label_val> ] [ __readonly__ <disp_summary> [ TABLE_labels
<disp_label> <disp_age> <disp_interface> <disp_pkt_cnt> <disp_stats> <disp_static> ] ]
```

## Syntax Description

show	Show running system information
mpls	MPLS information
strip	Stripping of MPLS headers
labels	labels added in the system
all	(Optional) all labels [default]
static	(Optional) labels programmed using cli
dynamic	(Optional) dynamically learned
<i>label_val</i>	(Optional) Label to show
<i>__readonly__</i>	(Optional) Read Only
<i>disp_summary</i>	(Optional) Summary
TABLE_labels	(Optional) MPLS Strip Labels Tables
<i>disp_label</i>	(Optional) Label
<i>disp_age</i>	(Optional) Age
<i>disp_interface</i>	(Optional) Interface
<i>disp_pkt_cnt</i>	(Optional) Packet Count
<i>disp_stats</i>	(Optional) Statistics
<i>disp_static</i>	(Optional) Static

## Command Mode

- /exec

## show mpls switching

```
show mpls switching [ labels <label> [ <max-label> ] | interface <intf> | { <ip-addr> | <ipv4-prefix> } [ vrf
{ <vrf-name> | <vrf-known-name> | all } ] | <ipv6-prefix> [ vrf { <vrf-name> | <vrf-known-name> | all } ] |
traffic-eng srpath [ <srte-path-id> ] | aggregate [ ipv4 | ipv6 ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] | { fec { ipv4_prefix [ vrf { <vrf-name> | <vrf-known-name> | all } ] | ipv6_prefix [ vrf { <vrf-name> |
<vrf-known-name> | all } ] | deagg [ vrf { <vrf-name> | <vrf-known-name> | all | ias_vpnv4 | ias_vpnv6 } ]
| per-bd <per-bd-vlan-id> } } | { summary } ] [ detail ] [ private ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ _readonly_ ] [ [ TABLE_vrf [ <vrf_name> ] [ [ TABLE_inlabel <in_label> [ [ { <out_label_stack>
+ } ] ] { <srte_path_id> | <ipv4_prefix> | <ipv6_prefix> } [ <out_interface> ] { <ipv4_next_hop> |
<ipv6_next_hop> } [ <weight> ] ] [ <deagg_vrf> [ <deagg_af> ] ] [ { <tunnel_v4_mid_source> |
<tunnel_v6_mid_source> } <tunnel_id> { <ext_v4_tunnel_id> | <ext_v6_tunnel_id> } <tunnel_instance>
<tunnel_head> ] [ <nhlfe_p2p_flag> ] [ <nhlfe_frr_status> ] [ <nhlfe_stale_flag> ] [ <in_packets> <in_bytes>
] [ [ <out_label> + ] <out_packets> + <out_bytes> + ] [ [ <tunnel_v4_mid_dest> | <tunnel_v6_mid_dest>
] { <ipv4_next_hop> | <ipv6_next_hop> } ] [ <per_ce_table> <per_ce_nh_set_id> ] [ { <ias_v4_prefix> |
<ias_v6_prefix> } <ias_rd> ] [ <fec_name_label> ] [ <per_bd_vlan_id> ] [ <table_name> ] ] [
TABLE_adj_sid_inlabel <adj_sid_in_label> <out_label> { <ipv4_addr> | <ipv6_addr> } <out_interface> {
<adj_sid_ipv4_next_hop> | <adj_sid_ipv6_next_hop> } [ <in_packets> <in_bytes> ] [ [ <out_label> +
] <out_packets> + <out_bytes> + ] ] ] ] [ TABLE_block <blockid> <lbl_range> ] ] ] ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
traffic-eng	(Optional) Show traffic-engineering related entries
srpath	(Optional) Show traffic-engineering segment-routing path entries
<i>ip-addr</i>	(Optional) Match destination address
<i>ipv4-prefix</i>	(Optional) Specify an IP prefix/mask
fec	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
labels	(Optional) Show a specific label-related information
<i>label</i>	(Optional) Low label value
<i>max-label</i>	(Optional) High label value
interface	(Optional) Match outgoing interface
aggregate	(Optional) Show aggregate-related information
<i>intf</i>	(Optional) Specify outgoing interface
summary	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

detail	(Optional) Detailed information
ipv4_prefix	(Optional) IPv4 prefix
ipv6_prefix	(Optional) IPv6 prefix
ipv4	(Optional) Display IPv4 information
ipv6	(Optional) Display IPv6 information
deagg	(Optional) De-aggregation
per-bd	(Optional) BD FEC
ias_vpnv4	(Optional) Display Inter-AS V4 information
ias_vpnv6	(Optional) Display Inter-AS V6 information
<i>srtc-path-id</i>	(Optional) Traffic-engineering segment-routing path id
<i>per-bd-vlan-id</i>	(Optional) Per BD id
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf_name</i>	(Optional)
TABLE_inlabel	(Optional)
<i>in_label</i>	(Optional)
<i>out_label_stack</i>	(Optional)
<i>ipv4_prefix</i>	(Optional)
<i>tunnel_v4_mid_source</i>	(Optional)
<i>tunnel_v4_mid_dest</i>	(Optional)
<i>tunnel_id</i>	(Optional)
<i>ext_v4_tunnel_id</i>	(Optional)
<i>tunnel_instance</i>	(Optional)
<i>tunnel_head</i>	(Optional)
<i>deagg_vrf</i>	(Optional)

<i>deagg_af</i>	(Optional)
<i>out_interface</i>	(Optional)
<i>ipv4_next_hop</i>	(Optional)
<i>ipv6_next_hop</i>	(Optional)
<i>weight</i>	(Optional)
<i>nhlfe_frr_status</i>	(Optional)
<i>nhlfe_stale_flag</i>	(Optional)
<i>nhlfe_p2p_flag</i>	(Optional)
<i>table_name</i>	(Optional)
<i>in_packets</i>	(Optional)
<i>in_bytes</i>	(Optional)
<i>out_label</i>	(Optional)
<i>out_packets</i>	(Optional)
<i>out_bytes</i>	(Optional)
<i>per_ce_table</i>	(Optional)
<i>per_ce_nh_set_id</i>	(Optional)
<i>fec_none_label</i>	(Optional)
<i>ias_v4_prefix</i>	(Optional)
<i>ias_v6_prefix</i>	(Optional)
<i>ias_rd</i>	(Optional)
<i>srte_path_id</i>	(Optional)
<i>per_bd_vlan_id</i>	(Optional)
TABLE_adj_sid_inlabel	(Optional)
<i>adj_sid_in_label</i>	(Optional)
<i>out_label</i>	(Optional)
<i>ipv4_addr</i>	(Optional)
<i>out_interface</i>	(Optional)
<i>adj_sid_ipv4_next_hop</i>	(Optional)
<i>adj_sid_ipv6_next_hop</i>	(Optional)



<i>in_packets</i>	(Optional)
<i>in_bytes</i>	(Optional)
<i>out_packets</i>	(Optional)
<i>out_bytes</i>	(Optional)
TABLE_block	(Optional)
<i>blockid</i>	(Optional)
<i>lbl_range</i>	(Optional)

**Command Mode**

- /exec

## show mpls switching clients

```
show mpls switching clients [ __readonly__ [ TABLE_client <pib-name> <pib-index> <pib-uuid> <pib-sap>
<stale-time> <pib-flag> [ <stale-due> ] <reg-msg> <conv-msg> [ <inv-conv> ] <fec-msg> <fec-add> <ile-add>
<fec-del> <ile-del> <last-xid> <fec-ack> ] ]
```

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
clients	Display ULIB client components
__readonly__	(Optional)
TABLE_client	(Optional)
<i>pib-name</i>	(Optional) Name of the client(pib)
<i>pib-index</i>	(Optional) PIB Index
<i>pib-uuid</i>	(Optional) PIB UUID
<i>pib-sap</i>	(Optional) MTS SAP for the pib
<i>stale-time</i>	(Optional) Stale time
<i>pib-flag</i>	(Optional) Flags set by the pib
<i>stale-due</i>	(Optional) Stale timer due in
<i>reg-msg</i>	(Optional) Number of Registration Message
<i>conv-msg</i>	(Optional) Number of Converge Message
<i>inv-conv</i>	(Optional) Number of Invalid Convergence message
<i>fec-msg</i>	(Optional) Number of FEC messages
<i>fec-add</i>	(Optional) Number of FEC Add messages
<i>ile-add</i>	(Optional) Number of ILE Add messages
<i>fec-del</i>	(Optional) Number of FEC delete messages
<i>ile-del</i>	(Optional) Number of ILE delete messages
<i>last-xid</i>	(Optional) Last XID
<i>fec-ack</i>	(Optional) Number of FEC Ack messages sent

### Command Mode

- /exec

## show mvpn bgp mdt

```
show mvpn bgp { mdt-safi | auto-discovery } [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry
<bgp_rd> <mdt_src> <mdt_grp> <local> } ]
```

### Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
bgp	Display BGP related information
mdt-safi	Display Auto-discovered BGP MDT-SAFI database
auto-discovery	Display Auto-discovered BGP MDT-SAFI database
mdt-source	(Optional) Source address of MVPN neighbor
<i>src-addr</i>	(Optional) Source Address
<i>__readonly__</i>	(Optional)
TABLE_entry	(Optional)
<i>bgp_rd</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_grp</i>	(Optional)
<i>local</i>	(Optional)

### Command Mode

- /exec

# show mvpn mdt encap

```
show mvpn mdt encap [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> { TABLE_encap <encap_index> <mdt_grp> <mdt_src> <mdt_src_if> } ]
```

## Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
mdt	Display MDT information
encap	Display MDT Encap table
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_encap	(Optional)
<i>encap_index</i>	(Optional)
<i>mdt_grp</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_src_if</i>	(Optional)

## Command Mode

- /exec

## show mvpn mdt route

```
show mvpn mdt route [ detail ] [ __readonly__ TABLE_vrf <out_context> [ TABLE_mroute <src_addr>
<grp_addr> <uptime> <ref_count> ] ]
```

### Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
mdt	Display MDT information
route	Display MDT route information
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_mroute	(Optional)
<i>src_addr</i>	(Optional)
<i>grp_addr</i>	(Optional)
<i>uptime</i>	(Optional)
<i>ref_count</i>	(Optional)

### Command Mode

- /exec



## N Show Commands

---

- [show nbm defaults](#), on page 1823
- [show nbm flow-policy](#), on page 1825
- [show nbm flows](#), on page 1827
- [show nbm flows static](#), on page 1831
- [show nbm flows statistics](#), on page 1833
- [show nbm flows summary](#), on page 1835
- [show nbm host-policy all](#), on page 1836
- [show nbm host-policy applied receiver](#), on page 1838
- [show nbm host-policy applied sender](#), on page 1840
- [show nbm interface bandwidth](#), on page 1842
- [show ngoam interface statistics](#), on page 1843
- [show ngoam loopback](#), on page 1844
- [show ngoam pathtrace](#), on page 1846
- [show ngoam probe](#), on page 1850
- [show ngoam traceroute statistics](#), on page 1852
- [show ngoam xconnect session](#), on page 1854
- [show npv external-interface-usage](#), on page 1856
- [show npv flogi-table](#), on page 1857
- [show npv status](#), on page 1858
- [show npv traffic-map](#), on page 1860
- [show ntp access-groups](#), on page 1861
- [show ntp authentication-keys](#), on page 1862
- [show ntp authentication-status](#), on page 1863
- [show ntp information](#), on page 1864
- [show ntp logging-status](#), on page 1865
- [show ntp peer-status](#), on page 1866
- [show ntp peers](#), on page 1867
- [show ntp rts-update](#), on page 1868
- [show ntp session status](#), on page 1869
- [show ntp source-interface](#), on page 1870
- [show ntp source](#), on page 1871
- [show ntp statistics](#), on page 1872
- [show ntp status](#), on page 1875

- [show ntp trusted-keys](#), on page 1876
- [show nve adjacency mpls](#), on page 1877
- [show nve bfd neighbors](#), on page 1878
- [show nve core-links](#), on page 1879
- [show nve ethernet-segment](#), on page 1880
- [show nve evi](#), on page 1882
- [show nve interface](#), on page 1883
- [show nve mpls](#), on page 1885
- [show nve multisite dci-links](#), on page 1886
- [show nve multisite fabric-links](#), on page 1887
- [show nve peers](#), on page 1888
- [show nve peers interface counters](#), on page 1890
- [show nve peers mpls](#), on page 1891
- [show nve peers vni interface counters](#), on page 1892
- [show nve replication-servers](#), on page 1893
- [show nve vni](#), on page 1894
- [show nve vni counters](#), on page 1896
- [show nve vni ingress-replication](#), on page 1897
- [show nve vrf](#), on page 1898
- [show nve vxlan-params](#), on page 1899
- [show nxapi-server logs](#), on page 1900
- [show nxapi](#), on page 1901



## show nbm defaults

```
show nbm defaults [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrfName> { <contextId> <bandwidthInKbps> <dscp> <qid> <policer> <operModeCache> <operMode>
<unicastFabricBandwidth> <numAsmGroup> } [ TABLE_ASM <groupId> { <groupPrefix> <groupMaskLen>
} ] { <senderPolicy> <localReceiverPolicy> <externalReceiverPolicy> } ]
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
defaults	Default config
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrfName</i>	(Optional) VRF name
<i>contextId</i>	(Optional) Context ID
<i>bandwidthInKbps</i>	(Optional) Bandwidth in Kbps
<i>dscp</i>	(Optional) DSCP
<i>qid</i>	(Optional) Queue ID
<i>policer</i>	(Optional) Policer
<i>operModeCache</i>	(Optional) Operation Mode Cache
<i>operMode</i>	(Optional) Operation Mode
<i>unicastFabricBandwidth</i>	(Optional) Unicast fabric bandwidth
<i>numAsmGroup</i>	(Optional) Number of ASM Groups
TABLE_ASM	(Optional) ASM Group Table
<i>groupId</i>	(Optional) Group number
<i>groupPrefix</i>	(Optional) Group Prefix
<i>groupMaskLen</i>	(Optional) Group Mask Length

<i>senderPolicy</i>	(Optional) Sender Policy
<i>localReceiverPolicy</i>	(Optional) Local Receiver Policy
<i>externalReceiverPolicy</i>	(Optional) External Receiver Policy (PIM)

**Command Mode**

- /exec

# show nbm flow-policy

```
show nbm flow-policy [ name { <policy-name> } ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [
__readonly__ TABLE_vrf { <vrfName> [ <policyName> ] [ { <defaultBandwidthKbps> <defaultDscp>
<defaultQos> <defaultPolicer> } ] [ { TABLE_flow_policy <groupRange> <bandwidthKbps> <dscp> <qos>
<policer> <policyName> } ] <numGroupRanges> <numPolicies> } ]
```

## Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flow-policy	Flow policy show command
name	(Optional) Policy name
<i>policy-name</i>	(Optional) Policy name value
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrfName</i>	(Optional) VRF name
<i>policyName</i>	(Optional) Policy name
<i>defaultBandwidthKbps</i>	(Optional) Default Bandwidth in Kbps
<i>defaultDscp</i>	(Optional) Default DSCP
<i>defaultQos</i>	(Optional) Default QOS
<i>defaultPolicer</i>	(Optional) Default Policer
TABLE_flow_policy	(Optional) Flow policies in VRF
<i>groupRange</i>	(Optional) Group range
<i>bandwidthKbps</i>	(Optional) Bandwidth in Kbps
<i>dscp</i>	(Optional) DSCP
<i>qos</i>	(Optional) QOS
<i>policer</i>	(Optional) Policer

<i>policyName</i>	(Optional) Policy Name
<i>numGroupRanges</i>	(Optional) Number of group or group-range
<i>numPolicies</i>	(Optional) Number of flow policies

**Command Mode**

- /exec

## show nbm flows

```
show nbm flows [ group-based [ group <group-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name>
} } | source <source-ip> [ group <group-ip> ] | group <group-ip> [ source <source-ip> ] | interface <if-name>
| logical-id { none | any | <lid-val> } | profile-id <prof-id> ] [ all | active | inactive | no-receiver ] [ detail ] [
vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name> ] [ TABLE_flows
{ <mcast_grp> <src_ip> [ <start_time> ] <uptime> <src_intf> <src_nbr_device> [ <lid> <profile> <status>
] <num_rx> <bw_mbps> [ <cfg_mbps> ] <src_slot> <src_unit> <src_slice> } [ { <act_slot> <act_unit>
<stdby_slot> <stdby_unit> } ] { <dscp> <qos> [ <owner_type> ] <policed> [ <is_fhr> ] <pol_name> } [
<flag> ] [ TABLE_num_int_links { <n_link> <num_links> } ] [ TABLE_int_links { <iiod> <ilink> <i_ifidx>
<fab_iiod> <fab_oiod> <fab_ifidx> <oiod> <olink> <i_ieth_port> <fab_ieth_port> } ] [ TABLE_oifs { [
<oif_num> ] <oif_slot> <oif_unit> <oif_slot_unit_num_rx> <oif_if_idx> <oif_ioid> <oif_name>
<oif_nbr_device> } ] [ { <end_timestr> <flow_rate_bps> <packets> <bytes> } ] ] ] ]
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows (default will be active flows)
active	(Optional) Active flows (default)
inactive	(Optional) Inactive flows
no-receiver	(Optional) Flows without any receiver
all	(Optional) Both active and inactive flows
group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
flow-policy	(Optional) Flow policy
<i>cfg-pol-name</i>	(Optional) Policy name
<i>unknown-pol-name</i>	(Optional) Policy name
source	(Optional) Source IP address
<i>source-ip</i>	(Optional) Source IP address
group	(Optional) Multicast group
<i>group-ip</i>	(Optional) Multicast group address
interface	(Optional) Ingress interface
logical-id	(Optional) Logical ID (LID)
<i>lid-val</i>	(Optional) Logical ID (LID) value
any	(Optional) Any Logical ID (LID)

none	(Optional) Without any Logical ID (LID)
profile-id	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>prof-id</i>	(Optional) Profile ID value
detail	(Optional) Detailed output
<i>if-name</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
TABLE_flows	(Optional) Flow table
<i>mcast_grp</i>	(Optional) Multicast group IP
<i>src_ip</i>	(Optional) Source IP
<i>start_time</i>	(Optional) Start time for the flow
<i>uptime</i>	(Optional) Uptime for the flow
<i>src_intf</i>	(Optional) Ingress source interface
<i>src_nbr_device</i>	(Optional) Ingress neighbor device name
<i>lid</i>	(Optional) Logical internal flow ID
<i>profile</i>	(Optional) Profile ID
<i>status</i>	(Optional) Flow status
<i>num_rx</i>	(Optional) Number of receivers (OIFs)
<i>bw_mbps</i>	(Optional) Set bandwidth
<i>cfg_mbps</i>	(Optional) Configured bandwidth
<i>src_slot</i>	(Optional) Source (RPF) slot
<i>src_unit</i>	(Optional) Source (RPF) unit
<i>src_slice</i>	(Optional) Source (RPF) slice
<i>dscp</i>	(Optional) Flow DSCP
<i>qos</i>	(Optional) Flow QOS group
<i>owner_type</i>	(Optional) Flow Owner type
<i>policed</i>	(Optional) Flow is policed or not
<i>is_fhr</i>	(Optional) This node is FHR (First-Hop Router) for the Flow

<i>pol_name</i>	(Optional) Flow Policy name
<i>vrf</i>	(Optional) Display per-VRF information
<i>all</i>	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>act_slot</i>	(Optional) Active FM Slot
<i>act_unit</i>	(Optional) Active FM Unit
<i>stdby_slot</i>	(Optional) Standby FM Slot
<i>stdby_unit</i>	(Optional) Standby FM Unit
<i>flag</i>	(Optional) Flow not guarantee flag
TABLE_num_int_links	(Optional) Internal link number table
<i>n_link</i>	(Optional) N Link
<i>num_links</i>	(Optional) Number of Links
TABLE_int_links	(Optional) Internal link table
<i>iiod</i>	(Optional) IIOD
<i>ilink</i>	(Optional) Ilink
<i>i_ifidx</i>	(Optional) Internal IF IDX
<i>fab_iiod</i>	(Optional) Fabric IIOD
<i>fab_oiod</i>	(Optional) Fabric OIOD
<i>fab_ifidx</i>	(Optional) Fabric IFIDX
<i>oiod</i>	(Optional) OIOD
<i>olink</i>	(Optional) OLink
<i>i_ieth_port</i>	(Optional) Internal IEth Link
<i>fab_ieth_port</i>	(Optional) Fabric IEth Port
TABLE_oifs	(Optional) OIF table
<i>oif_num</i>	(Optional) Receiver serial number
<i>oif_slot</i>	(Optional) Slot
<i>oif_unit</i>	(Optional) Unit
<i>oif_slot_unit_num_rx</i>	(Optional) Number of Receivers for slot/unit

<i>oif_if_idx</i>	(Optional) Receiver interface index
<i>oif_iod</i>	(Optional) Outgoing IOD
<i>oif_name</i>	(Optional) Outgoing interface name
<i>oif_nbr_device</i>	(Optional) Outgoing neighbor device name
<i>end_timestr</i>	(Optional) Deleted flow end time
<i>flow_rate_bps</i>	(Optional) Deleted flow flow rate in bps
<i>packets</i>	(Optional) Deleted flow packets
<i>bytes</i>	(Optional) Deleted flow bytes

**Command Mode**

- /exec



## show nbm flows static

```
show nbm flows static [ group <grp> ] [ source <src> ] [ stitched | unstitched ] [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ { [ TABLE_vrf <vrf-name> [ TABLE_stitched { <stitchedSrc>
<stitchedGrp> [ TABLE_stitchedEgress { <stitchedEgressIntf> } ] [ TABLE_stitchedHost { <stitchedHostIp>
} ] } ] [ TABLE_unstitched { <unstitchedSrc> <unstitchedGrp> [ TABLE_unstitchedEgress {
<unstitchedEgressIntf> } ] [ TABLE_unstitchedHost { <unstitchedHostIp> } ] } ] } ] }
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows (default will be active flows)
static	Static NBM Flows
group	(Optional) Multicast group
grp	(Optional) Multicast group address
source	(Optional) Source ip of sender
src	(Optional) Source address
stitched	(Optional) Show only successfully provisioned oif
unstitched	(Optional) Show only failed to provision oif
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
vrf-name	(Optional) VRF name
nbm-vrf-known-name	(Optional) NBM VRF Name
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
vrf-name	(Optional) VRF name
TABLE_stitched	(Optional) Static Flows stitched table
stitchedSrc	(Optional) Source IP address stitched
stitchedGrp	(Optional) Multicast Group address stitched
TABLE_stitchedEgress	(Optional) Egress Interface table stitched flows
stitchedEgressIntf	(Optional) Egress Interface for stitched flows
TABLE_stitchedHost	(Optional) Host IP table for stitched flows

<i>stitchedHostIp</i>	(Optional) Host IP address for stitched flows
TABLE_unstitched	(Optional) Static Flows unstitched
<i>unstitchedSrc</i>	(Optional) Source IP address unstitched
<i>unstitchedGrp</i>	(Optional) Multicast Group address unstitched
TABLE_unstitchedEgress	(Optional) Egress Interface table unstitched flows
<i>unstitchedEgressIntf</i>	(Optional) Egress Interface for unstitched flows
TABLE_unstitchedHost	(Optional) Host IP table for unstitched flows
<i>unstitchedHostIp</i>	(Optional) Host IP address for unstitched flows

**Command Mode**

- /exec

## show nbm flows statistics

```
show nbm flows statistics [ group-based [ group <group-ip> ] | source <source-ip> [ group <group-ip> ] |
group <group-ip> [ source <source-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name> } } |
interface <if-name> | logical-id { none | any | <lid-val> } | profile-id <prof-id> ] [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ { [ TABLE_vrf <vrf-name> [ TABLE_stats { <mcast_grp>
<src_ip> [ <start_time> ] <uptime> <src_intf> <packets> <bytes> <allow_bytes> <drop_bytes> } ] } ]
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
statistics	Flow statistics
group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
source	(Optional) Source IP address
<i>source-ip</i>	(Optional) Source IP address value
group	(Optional) Multicast group
<i>group-ip</i>	(Optional) Multicast group address value
flow-policy	(Optional) Flow policy
<i>cfg-pol-name</i>	(Optional) Policy name
<i>unknown-pol-name</i>	(Optional) Policy name
interface	(Optional) Ingress interface
<i>if-name</i>	(Optional) Interface interface name
logical-id	(Optional) Logical ID (LID)
<i>lid-val</i>	(Optional) Logical ID (LID) value
any	(Optional) Any Logical ID (LID)
none	(Optional) Without any Logical ID (LID)
profile-id	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>prof-id</i>	(Optional) Profile ID value
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name

<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>TABLE_stats</i>	(Optional) Flow stats table
<i>mcast_grp</i>	(Optional) Multicast group IP
<i>src_ip</i>	(Optional) Source IP
<i>start_time</i>	(Optional) Start time for the flow
<i>uptime</i>	(Optional) Uptime for the flow
<i>src_intf</i>	(Optional) Ingress source interface
<i>packets</i>	(Optional) Packets
<i>bytes</i>	(Optional) Bytes
<i>allow_bytes</i>	(Optional) Allowed bytes
<i>drop_bytes</i>	(Optional) Dropped bytes

**Command Mode**

- /exec

# show nbm flows summary

```
show nbm flows summary [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf
<vrf-name> [ TABLE_flows_summary <flow_type> <starg> <sg> <total> ] [ TABLE_flows_summary_per_rpf
<if-name> <starg> <sg> <total> ] ] ]
```

## Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM Flows
summary	NBM Flow Summary
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
TABLE_flows_summary	(Optional) Flow summary table
<i>flow_type</i>	(Optional) Type of Flow Summary
<i>sg</i>	(Optional) (S,G) number of flows
<i>starg</i>	(Optional) (*,G) number of flows
<i>total</i>	(Optional) Total Flows
TABLE_flows_summary_per_rpf	(Optional) Flow summary table per RPF
<i>if-name</i>	(Optional) RPF Interface name
<i>sg</i>	(Optional) (S,G) number of flows
<i>starg</i>	(Optional) (*,G) number of flows
<i>total</i>	(Optional) Total Flows

## Command Mode

- /exec

## show nbm host-policy all

```
show nbm host-policy all { sender | { receiver { local | external } } } [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name> <policyType> <defaultHostPolicy>
[ TABLE_host_policies <seqNum> <source> <group> <groupMask> [ <host> ] <permission> ] <numPolicies>
] ]
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
host-policy	Host policy
all	All policies on switch
sender	Sender Policy
receiver	Receiver Policy
local	Local receiver policy
external	External receiver policy
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>policyType</i>	(Optional) Type of Policy
<i>defaultHostPolicy</i>	(Optional) Default Permission for Host Policy
TABLE_host_policies	(Optional) Host policy table
<i>seqNum</i>	(Optional) Sequence number
<i>source</i>	(Optional) Source IP
<i>group</i>	(Optional) Multicast group IP
<i>groupMask</i>	(Optional) Group mask length
<i>host</i>	(Optional) Reporter or Host IP

<i>permission</i>	(Optional) Permission for this Policy
<i>numPolicies</i>	(Optional) Number of Policies

**Command Mode**

- /exec

## show nbm host-policy applied receiver

```
show nbm host-policy applied receiver { { { local { all | wildcard } | external } [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] } | { local interface <if-name> } } [ __readonly__ [ TABLE_vrf <vrf-name>
<policyType> <defaultHostPolicy> [ TABLE_interface <ifName> [ TABLE_host_policies <seqNum>
<source> <group> <groupMask> <permission> <denyCounter> ] ] [ TABLE_wildcard_policies
<seqNumWildcard> <sourceWildcard> <groupWildcard> <groupMaskWildcard> <permissionWildcard>
<denyCounterWildcard> ] <numPolicies> ] ]
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
host-policy	Host policy
applied	Applied policies only
receiver	Receiver Policy
local	Local receiver policy
all	All policies on switch
wildcard	All wildcard policies
external	External receiver policy
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
all	(Optional) Display all VRFs
interface	Interface
<i>if-name</i>	Interface name
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>policyType</i>	(Optional) Type of Policy
<i>defaultHostPolicy</i>	(Optional) Default Permission for Host Policy
TABLE_interface	(Optional) Interface table
<i>ifName</i>	(Optional) Interface name



TABLE_host_policies	(Optional) Host policy table
<i>seqNum</i>	(Optional) Sequence number
<i>source</i>	(Optional) Source IP
<i>group</i>	(Optional) Multicast group IP
<i>groupMask</i>	(Optional) Group mask length
<i>permission</i>	(Optional) Permission for this Policy
<i>denyCounter</i>	(Optional) Deny Counter
TABLE_wildcard_policies	(Optional) Wildcard policy table
<i>seqNumWildcard</i>	(Optional) Sequence number
<i>sourceWildcard</i>	(Optional) Source IP
<i>groupWildcard</i>	(Optional) Multicast group IP
<i>groupMaskWildcard</i>	(Optional) Group mask length
<i>permissionWildcard</i>	(Optional) Permission for this Policy
<i>denyCounterWildcard</i>	(Optional) Deny Counter
<i>numPolicies</i>	(Optional) Number of Policies

**Command Mode**

- /exec

## show nbm host-policy applied sender

```
show nbm host-policy applied sender { { { all | wildcard } [ vrf { <vrf-name> | <nbm-vrf-known-name> | all
} ] } | { interface <if-name> } } [ __readonly__ [ TABLE_vrf <vrf-name> <policyType> <defaultHostPolicy>
[ TABLE_interface <ifName> [ TABLE_host_policies <seqNum> <source> <group> <groupMask>
<permission> ] ] [ TABLE_wildcard_policies <seqNumWildcard> <sourceWildcard> <groupWildcard>
<groupMaskWildcard> <permissionWildcard> ] <numPolicies> ] ]
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
host-policy	Host policy
applied	Applied policies only
sender	Sender Policy
all	All policies on switch
wildcard	Wildcard host policy
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
interface	Interface
<i>if-name</i>	Interface name
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>policyType</i>	(Optional) Type of Policy
<i>defaultHostPolicy</i>	(Optional) Default Permission for Host Policy
TABLE_interface	(Optional) Interface table
<i>ifName</i>	(Optional) Interface name
TABLE_host_policies	(Optional) Host policy table
<i>seqNum</i>	(Optional) Sequence number
<i>source</i>	(Optional) Source IP

<i>group</i>	(Optional) Multicast group IP
<i>groupMask</i>	(Optional) Group mask length
<i>permission</i>	(Optional) Permission for this Policy
TABLE_wildcard_policies	(Optional) Wildcard policy table
<i>seqNumWildcard</i>	(Optional) Sequence number
<i>sourceWildcard</i>	(Optional) Source IP
<i>groupWildcard</i>	(Optional) Multicast group IP
<i>groupMaskWildcard</i>	(Optional) Group mask length
<i>permissionWildcard</i>	(Optional) Permission for this Policy
<i>numPolicies</i>	(Optional) Number of Policies

**Command Mode**

- /exec

## show nbm interface bandwidth

```
show nbm interface bandwidth [ __readonly__ [ TABLE_bw { <index> <ifname> <iod> <slot> <unit> <slice>
<ingr_fl_bw_available> <ingr_fl_bw_usable> <ingr_fl_bw_capacity> <egr_fl_bw_available>
<egr_fl_bw_usable> <egr_fl_bw_capacity> <nbr_dev_id> <nbr_dev_name> <external> } ] ]
```

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
interface	interface
bandwidth	Bandwidth interface table
__readonly__	(Optional)
TABLE_bw	(Optional) TABLE Bandwidth
<i>index</i>	(Optional) Index
<i>ifname</i>	(Optional) Interface
<i>iod</i>	(Optional) IOD
<i>slot</i>	(Optional) SLOT
<i>unit</i>	(Optional) UNIT
<i>slice</i>	(Optional) SLICE
<i>ingr_fl_bw_available</i>	(Optional) Ingress Flow BW available
<i>ingr_fl_bw_usable</i>	(Optional) Ingress Flow BW usable
<i>ingr_fl_bw_capacity</i>	(Optional) Ingress Flow BW capacity
<i>egr_fl_bw_available</i>	(Optional) Egress Flow BW available
<i>egr_fl_bw_usable</i>	(Optional) Egress Flow BW usable
<i>egr_fl_bw_capacity</i>	(Optional) Egress Flow BW capacity
<i>nbr_dev_id</i>	(Optional) Neighbor device ID
<i>nbr_dev_name</i>	(Optional) Neighbor device name
<i>external</i>	(Optional) External

### Command Mode

- /exec

## show ngoam interface statistics

```
show ngoam interface statistics [ __readonly__ [ TABLE_stats { <interface-name> <tx> <rx> } <statistics-end>
]]
```

### Syntax Description

TABLE_stats	(Optional) interface statistics table
<i>interface-name</i>	(Optional) interface namestring
<i>tx</i>	(Optional) ngoam probe transmit on the interface
<i>rx</i>	(Optional) ngoam probe receive on the interface
show	Show running system information
ngoam	ngoam
interface	probe packet interface
statistics	ngoam probe interface statistics
__readonly__	(Optional) Read Only
<i>statistics-end</i>	(Optional) statistics table end marker

### Command Mode

- /exec

## show ngoam loopback

```
show ngoam loopback { { statistics { session { <handle> | all } | summary } } | { status { session { <handle>
| all } } } } [ __readonly__ [ TABLE_statistics { <sender-handle> [ <connect-check-id> ] <last-clear-stats>
TABLE_stats_attr { <stat-attr> <stat-value> } } ] [ TABLE_status { <st-sender-handle> <type> <state> } ]
[ TABLE_statistics_summary { <last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <req-sw-fwd>
<req-drop> <resp-tx> <resp-rx> <resp-unsent> <resp-dup> <resp-sw-fwd> <resp-drop> } ] ]
```

### Syntax Description

show	Show running system information
ngoam	ngoam
loopback	ngoam loopback
statistics	ngoam loopback statistics
summary	ngoam loopback statistics summary
status	ngoam loopback status
session	ngoam loopback session
session	ngoam loopback session
<i>handle</i>	ngoam loopback session handle
<i>handle</i>	ngoam loopback session handle
all	Display results for all ping/loopback sessions
all	Display results for all ping/loopback sessions
TABLE_statistics	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>connect-check-id</i>	(Optional) connect check id
<i>last-clear-stats</i>	(Optional) last clear time for statistics
TABLE_stats_attr	(Optional) Stats attributes table
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_statistics_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received

<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received
<i>req-sw-fwd</i>	(Optional) Request pkts sw fwded
<i>resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>req-drop</i>	(Optional) Requests dropped
<i>resp-drop</i>	(Optional) Responses dropped
TABLE_status	(Optional) database status table
<i>st-sender-handle</i>	(Optional) sender handle
<i>type</i>	(Optional) ngoam ping type
<i>state</i>	(Optional) ngoam ping state
<u>__readonly__</u>	(Optional) Read Only

### Command Mode

- /exec

## show ngoam pathtrace

```
show ngoam pathtrace { { statistics { summary | { session { <handle> | all } } } } | { database session {
<handle> | all } [ detail ] } } [ __readonly__ [ { TABLE_stats <sender-handle> <last-clear-stats> [
TABLE_stats_fields { <stat-attr> <stat-value> } ] } ] [ { TABLE_summary <last-clear-summary-stats> <tx>
<rx> <timeout> <unsent> <req-sw-fwd> <req-drop> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
<resp-sw-fwd> <resp-drop> } ] [ { TABLE_database <db-sender-handle> <db-start-time> <db-end-time>
<db-last-clear-stats> <db-tx> <db-rx> <db-timeout> <db-unsent> <db-req-sw-fwd> <db-req-drop> <db-resp-tx>
<db-resp-rx> <db-resp-unsent> <db-resp-dup> <db-resp-sw-fwd> <db-resp-drop> { TABLE_db_reply
<seq-number> <cli-status> [ <reply-ip> ] [ <ingress-if> ] [ <ingress-if-state> ] [ <egress-if> ] [ <egress-if-state>
] [ { TABLE_ifstats <if-name> <rx-len> <rx-bytes> <rx-pkt-rate> <rx-byte-rate> <rx-load> <rx-ucast>
<rx-mcast> <rx-bcast> <rx-discards> <rx-errors> <rx-unknown> <rx-bandwidth> <tx-len> <tx-bytes>
<tx-pkt-rate> <tx-byte-rate> <tx-load> <tx-ucast> <tx-mcast> <tx-bcast> <tx-discards> <tx-errors>
<tx-bandwidth> } ] [ <end-row> ] + } } ] ]
```

### Syntax Description

show	Show running system information
ngoam	ngoam
pathtrace	ngoam pathtrace
statistics	ngoam pathtrace statistics
summary	ngoam pathtrace statistics summary
session	ngoam pathtrace session
<i>handle</i>	ngoam pathtrace session handle
all	Display results for all pathtrace sessions
database	ngoam pathtrace results from the database
session	ngoam pathtrace session
all	Display results for all pathtrace sessions
<i>handle</i>	ngoam pathtrace session handle
detail	(Optional) Show detailed stats if present
__readonly__	(Optional) Read Only
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
TABLE_stats_fields	(Optional) statistics entries
<i>stat-attr</i>	(Optional) stats type



<i>stat-value</i>	(Optional) stats value
TABLE_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>req-sw-fwd</i>	(Optional) Request pkts sw fwded
<i>req-drop</i>	(Optional) Requests dropped
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received
<i>resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>resp-drop</i>	(Optional) Responses dropped
TABLE_database	(Optional) pathtrace database
<i>db-sender-handle</i>	(Optional) Sender handle
<i>db-start-time</i>	(Optional) Start time
<i>db-end-time</i>	(Optional) End time
<i>db-last-clear-stats</i>	(Optional) Last clear stats
<i>db-tx</i>	(Optional) Tx packets
<i>db-rx</i>	(Optional) Rx packets
<i>db-timeout</i>	(Optional) Timeout
<i>db-unsent</i>	(Optional) Unsent
<i>db-req-sw-fwd</i>	(Optional) Request pkts sw fwded
<i>db-req-drop</i>	(Optional) Requests dropped
<i>db-resp-tx</i>	(Optional) Response tx
<i>db-resp-rx</i>	(Optional) Response Rx
<i>db-resp-unsent</i>	(Optional) Response unsent

<i>db-resp-dup</i>	(Optional) Duplicate response recvd
<i>db-resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>db-resp-drop</i>	(Optional) Responses dropped
TABLE_db_reply	(Optional) Replies
<i>seq-number</i>	(Optional) Sequence number
<i>cli-status</i>	(Optional) ngoam pathtrace status
<i>reply-ip</i>	(Optional) ngoam pathtrace reply ip
<i>ingress-if</i>	(Optional) Ingress interface
<i>ingress-if-state</i>	(Optional) Ingress interface state
<i>egress-if</i>	(Optional) Egress interface
<i>egress-if-state</i>	(Optional) Egress interface state
<i>end-row</i>	(Optional) Row end
TABLE_ifstats	(Optional) Interface statistics
<i>if-name</i>	(Optional) Interface name
<i>rx-len</i>	(Optional) Rx Length
<i>rx-bytes</i>	(Optional) Rx Bytes
<i>rx-pkt-rate</i>	(Optional) Rx packet rate
<i>rx-byte-rate</i>	(Optional) Rx byte rate
<i>rx-load</i>	(Optional) Rx load
<i>rx-ucast</i>	(Optional) Rx unicast pkts
<i>rx-mcast</i>	(Optional) Rx mcast pkts
<i>rx-bcast</i>	(Optional) Rx bcast pkts
<i>rx-discards</i>	(Optional) Rx discards
<i>rx-errors</i>	(Optional) Rx errors
<i>rx-unknown</i>	(Optional) Rx unknown
<i>rx-bandwidth</i>	(Optional) Rx bandwidth
<i>tx-len</i>	(Optional) Tx Length
<i>tx-bytes</i>	(Optional) Tx Bytes
<i>tx-pkt-rate</i>	(Optional) Tx packet rate

<i>tx-byte-rate</i>	(Optional) Tx byte rate
<i>tx-load</i>	(Optional) Tx load
<i>tx-ucast</i>	(Optional) Tx unicast pkts
<i>tx-mcast</i>	(Optional) Tx mcast pkts
<i>tx-bcast</i>	(Optional) Tx bcast pkts
<i>tx-discards</i>	(Optional) Tx discards
<i>tx-errors</i>	(Optional) Tx unknown
<i>tx-bandwidth</i>	(Optional) Tx bandwidth

**Command Mode**

- /exec

## show ngoam probe

```
show ngoam probe { { statistics { summary | { session { <handle> | all } } } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <transaction-id> <dst-vip> <vni> <oam-type> <flow-str> <last-clear-stats> <req-sent>
<req-not-sent> } <statistics-end> ] [ TABLE_summary { <last-clear-summary-stats> <tx> <rx> <timeout>
<unsent> <resp-tx> <resp-rx> <resp-unsent> } ] ]
```

### Syntax Description

show	Show running system information
ngoam	ngoam
probe	ngoam probe
statistics	ngoam probe statistics
summary	ngoam probe statistics summary
session	ngoam probe session
<i>handle</i>	ngoam probe session handle
all	Display results for all probe sessions
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>transaction-id</i>	(Optional) Transaction Identifier
<i>dst-vip</i>	(Optional) Destination Vtep ip address
<i>vni</i>	(Optional) vxlan header vni
<i>oam-type</i>	(Optional) draft pang oam type
<i>flow-str</i>	(Optional) 128 byte flow string.
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>req-sent</i>	(Optional) request sent
<i>req-not-sent</i>	(Optional) request not sent or failed
<i>statistics-end</i>	(Optional) statistics table end marker
TABLE_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received

<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>__readonly__</i>	(Optional) Read Only

**Command Mode**

- /exec

## show ngoam traceroute statistics

```
show ngoam traceroute statistics { summary | { session { <handle> | all } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <last-clear-stats> TABLE_stats_attr { <stat-attr> <stat-value> } } ] [ TABLE_summary
{ <last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
} ] ]
```

### Syntax Description

show	Show running system information
ngoam	ngoam
traceroute	ngoam traceroute
statistics	ngoam traceroute statistics
summary	ngoam traceroute statistics summary
session	ngoam traceroute session
<i>handle</i>	ngoam traceroute session handle
all	Display results for all traceroute sessions
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
TABLE_stats_attr	(Optional) Stats attributes table
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent

<i>resp-dup</i>	(Optional) Duplicate responses received
<i>__readonly__</i>	(Optional) Read Only

**Command Mode**

- /exec

## show ngoam xconnect session

```
show ngoam xconnect session { <id> [ iodb ] | all [ dbdump ] } [ __readonly__ [ TABLE_xc_db_summary
{ [ <legend> ] <vlan-id> <peer-ip> <vni> <db-state> <local-if> <local-if-state> <remote-if> <remote-if-state>
[ <end-row> ] + } + ] [ ENTRY_xc_db_detail { <detail> <d-vlan-id> <d-peer-ip> [ <peer-name> ] <d-vni>
<d-db-state> <last-state-change-ts> <d-local-if> <d-local-if-state> <vpc-if> <vpc-if-state> <remote-if-detail>
<remote-if-detail-state> <remote-vpc-if> <remote-vpc-if-state> [ <d-end-row> ] + } ] ]
```

### Syntax Description

show	Show running system information
ngoam	ngoam information
xconnect	crossconnect info
session	xc session id
<i>id</i>	Vlan-id of the xc
iodb	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
all	show summary info for all sessions
<u>__readonly__</u>	(Optional) Read Only
TABLE_xc_db_summary	(Optional) XC Db table
ENTRY_xc_db_detail	(Optional) XC Db detail
<i>detail</i>	(Optional) Detail or not
<i>vlan-id</i>	(Optional) Vlan id
<i>d-vlan-id</i>	(Optional) Vlan id
<i>vni</i>	(Optional) vni
<i>d-vni</i>	(Optional) vni
<i>local-if</i>	(Optional) Interface
<i>d-local-if</i>	(Optional) Interface
<i>local-if-state</i>	(Optional) Interface state
<i>d-local-if-state</i>	(Optional) Interface state
<i>remote-if</i>	(Optional) Remote interface
<i>remote-if-state</i>	(Optional) Remote interface state
<i>remote-if-detail</i>	(Optional) Remote interface
<i>remote-if-detail-state</i>	(Optional) Remote interface state



<i>vpc-if</i>	(Optional) Interface
<i>vpc-if-state</i>	(Optional) Interface state
<i>remote-vpc-if</i>	(Optional) Remote vpc interface
<i>remote-vpc-if-state</i>	(Optional) Remote vpc interface state
<i>db-state</i>	(Optional) XC state
<i>d-db-state</i>	(Optional) XC state
<i>last-state-change-ts</i>	(Optional) Last state change timestamp
<i>peer-ip</i>	(Optional) Peer ip
<i>d-peer-ip</i>	(Optional) Peer ip
<i>peer-name</i>	(Optional) Peer name
<i>end-row</i>	(Optional) end row
<i>d-end-row</i>	(Optional) end row
<i>legend</i>	(Optional) legend
dbdump	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

**Command Mode**

- /exec

## show npv external-interface-usage

```
show npv external-interface-usage [ server-interface <if0> ] [ __readonly__ { TABLE_intf_usage <svr_intf>
<ext_intf> } ]
```

### Syntax Description

show	Show running system information
npv	Show information about NPV
external-interface-usage	Show external interface usage by server interfaces
server-interface	(Optional) Show external interface usage by a server interface
<i>if0</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_intf_usage	(Optional) External Interfaces Usage Table
<i>svr_intf</i>	(Optional) Server Interface
<i>ext_intf</i>	(Optional) External Interface

### Command Mode

- /exec

## show npv flogi-table

```
show npv flogi-table [ { interface <i0> | vsan <i0> } ] [ __readonly__ [ [ TABLE_flogi <svr_intf> <vsan_id>
<fcid> <pwwn> <ext_intf> <nwwn> ] [ <flogi_count> ] ] ]
```

### Syntax Description

show	Show running system information
npv	Show information about NPV
flogi-table	Show information about FLOGI sessions
interface	(Optional) Show information about FLOGI sessions for a server interface
<i>i0</i>	(Optional)
vsan	(Optional) Show information about FLOGI sessions for a VSAN
<i>i0</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_flogi	(Optional) FLOGI Table
<i>svr_intf</i>	(Optional) Server Interface
<i>vsan_id</i>	(Optional) VSAN ID
<i>fcid</i>	(Optional) FLOGI FCID
<i>pwwn</i>	(Optional) The PWWN
<i>ext_intf</i>	(Optional) External Interface
<i>nwwn</i>	(Optional) The NWWN
<i>flogi_count</i>	(Optional) Total FLOGI Count

### Command Mode

- /exec

## show npv status

```
show npv status [ vsan <i0> ] [ __readonly__ [ [ <npiv_status> ] [ <load_balance> ] [ { TABLE_extintf
<ext_intf> [ <ext_vsan> ] [ <ext_fcid> ] <ext_state> [ { TABLE_vsan <vsan_vsan> <vsan_state> [ <vsan_fcid>
} } ] ] <ext_intf_count> [ { TABLE_svrntf <svr_intf> <svr_vsan> <svr_state> } ] <svr_intf_count> ] ]
```

### Syntax Description

show	Show running system information
npv	Show information about NPV
status	Show NPV status
vsan	(Optional) Show NPV status for a specific VSAN
i0	(Optional)
__readonly__	(Optional) Read Only
npiv_status	(Optional) NPIV enable/disable status
load_balance	(Optional) disruptive load balance status
TABLE_extintf	(Optional) External Interfaces Table
ext_intf	(Optional) External Interface
ext_vsan	(Optional) External Interface VSAN
ext_fcid	(Optional) External Interface FCID
ext_state	(Optional) External Interface State
TABLE_vsan	(Optional) External Interfaces VSAN Table
vsan_vsan	(Optional) External Interface VSAN
vsan_state	(Optional) VSAN State
vsan_fcid	(Optional) VSAN FCID
ext_intf_count	(Optional) External Interface count
TABLE_svrntf	(Optional) Server Interfaces Table
svr_intf	(Optional) Server Interface
svr_vsan	(Optional) Server Interface VSAN
svr_state	(Optional) Server Interface State
svr_intf_count	(Optional) Server Interface count

### Command Mode

- /exec

## show npv traffic-map

```
show npv traffic-map [ server-interface <if0> ] [ __readonly__ [ { TABLE_traffic_map <svr_intf> <ext_intf>
} ] ]
```

### Syntax Description

show	Show running system information
npv	Show information about NPV
traffic-map	Show information about Traffic Map
server-interface	(Optional) Show information about Traffic map for a server interface
<i>if0</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_traffic_map	(Optional) Traffic Map Table
<i>svr_intf</i>	(Optional) Server Interface
<i>ext_intf</i>	(Optional) External Interface

### Command Mode

- /exec

## show ntp access-groups

```
show ntp access-groups [ __readonly__ [ <matchall> ] [ { TABLE_accessgroups <accesslist> [ <type> } ] ]
```

### Syntax Description

show	Show running system information
ntp	Show NTP information
access-groups	Display NTP access groups
__readonly__	(Optional)
<i>matchall</i>	(Optional) matchall
TABLE_accessgroups	(Optional) accessgroups
<i>accesslist</i>	(Optional) accesslist
<i>type</i>	(Optional) type

### Command Mode

- /exec

## show ntp authentication-keys

```
show ntp authentication-keys [ __readonly__ [ { TABLE_authkeys <Authkey> [ <MD5String> ] } ] ]
```

### Syntax Description

show	Show running system information
ntp	Show NTP information
authentication-keys	Display authentication keys
__readonly__	(Optional)
TABLE_authkeys	(Optional) authentication keys
<i>Authkey</i>	(Optional) authentication key
<i>MD5String</i>	(Optional) password

### Command Mode

- /exec



## show ntp authentication-status

show ntp authentication-status [ \_\_readonly\_\_ [ <authentication> ] ]

### Syntax Description

show	Show running system information
ntp	Show NTP information
authentication-status	NTP Authentication Status
__readonly__	(Optional)
<i>authentication</i>	(Optional) authentication enabled/disabled

### Command Mode

- /exec

# show ntp information

```
show ntp information [ __readonly__ [ <system_type> ] [ <software_version> ] ]
```

## Syntax Description

show	Show running system information
ntp	Show NTP information
information	Show ntp information
<i>__readonly__</i>	(Optional)
<i>system_type</i>	(Optional) Ntp System Type
<i>software_version</i>	(Optional) Ntp Software Version

## Command Mode

- /exec

# show ntp logging-status

show ntp logging-status [ \_\_readonly\_\_ [ <loggingstatus> ] ]

## Syntax Description

show	Show running system information
ntp	Show NTP information
logging-status	Display NTP logging status
__readonly__	(Optional)
<i>loggingstatus</i>	(Optional) logging enabled/disabled

## Command Mode

- /exec

## show ntp peer-status

```
show ntp peer-status [ __readonly__ [ <totalpeers> ] [ { TABLE_peersstatus <syncmode> <remote> <local>
<st> <poll> <reach> <delay> [ <vrf> ] } ] ]
```

### Syntax Description

show	Show running system information
ntp	Show NTP information
peer-status	Show the status for all the server/peers
<i>__readonly__</i>	(Optional)
<i>totalpeers</i>	(Optional) totalpeers
TABLE_peersstatus	(Optional) peersstatus
<i>syncmode</i>	(Optional) peermode
<i>remote</i>	(Optional) remote addr
<i>local</i>	(Optional) local addr
<i>st</i>	(Optional) stratum
<i>poll</i>	(Optional) ntp poll
<i>reach</i>	(Optional) reach
<i>delay</i>	(Optional) delay
<i>vrf</i>	(Optional) vrf name

### Command Mode

- /exec

# show ntp peers

```
show ntp peers [ __readonly__ [ { TABLE_peers <PeerIPAddress> <serv_peer> <conf_flag> } ] ]
```

## Syntax Description

show	Show running system information
ntp	Show NTP information
peers	Show all the peers.
__readonly__	(Optional)
TABLE_peers	(Optional) peers
<i>PeerIPAddress</i>	(Optional) peer Ip addr
<i>serv_peer</i>	(Optional) server or peer
<i>conf_flag</i>	(Optional) configured or dynamic

## Command Mode

- /exec

# show ntp rts-update

show ntp rts-update [ \_\_readonly\_\_ [ <rtsupdate> ] ]

## Syntax Description

show	Show running system information
ntp	Show NTP information
rts-update	Show if the RTS update is enabled
__readonly__	(Optional)
<i>rtsupdate</i>	(Optional) rts update enabled/disabled

## Command Mode

- /exec

# show ntp session status

```
show ntp session status [ __readonly__ [ <session_status> ] ]
```

## Syntax Description

show	Show running system information
ntp	Show NTP information
session	Show the session information
status	Show the session status
<i>__readonly__</i>	(Optional)
<i>session_status</i>	(Optional) last session status

## Command Mode

- /exec

# show ntp source-interface

show ntp source-interface [ \_\_readonly\_\_ [ <sourceinterface> ] ]

## Syntax Description

show	Show running system information
ntp	Show NTP information
source-interface	Source interface configured
__readonly__	(Optional)
<i>sourceinterface</i>	(Optional) source interface

## Command Mode

- /exec



# show ntp source

```
show ntp source [ __readonly__ [ { TABLE_sourceip <sourceip> } ] ]
```

## Syntax Description

show	Show running system information
ntp	Show NTP information
source	Source IP address configured
__readonly__	(Optional)
TABLE_sourceip	(Optional) source ip table
<i>sourceip</i>	(Optional) source ip addr

## Command Mode

- /exec

## show ntp statistics

```
show ntp statistics [ [ io ] | [ local ] | [ memory ] | peer { ipaddr { <ipv4_0> | <ipv6_1> } | name <s0> } ] [
__readonly__ [ { <iotimesincereset> <ioreceivebuffers> <iofreereceivebuffers> <iousedreceivebuffers>
<iolowwaterrefills> <iodroppedpackets> <ioignoredpackets> <ioreceivedpackets> <iopacketsent>
<iopacketsnotsent> <iointerruptshandled> <ioreceivedbyint> } ] [ { <localsystemuptime> <localtimesincereset>
<localoldversionpackets> <localnewversionpackets> <localunknownversionnumber> <localbadpacketformat>
<localpacketsprocessed> <localbadauthentication> [ <localpacketsrejected> } ] [ { <memtimesincereset>
<memtotalpeermemory> <memfreepeermemory> <memcallstofindpeer> <memnewpeerallocations>
<mempeerdemobilizations> <memhashtablecounts> } ] [ { <peeripremotehost> <peeriplocalinterface>
<peeriptimelastreceived> <peeriptimeuntilnextsend> <peeripreachabilitychange> <peerippacketsent>
<peerippacketsreceived> <peeripbadauthentication> <peeripbogusorigin> <peeripduplicate>
<peeripbaddispersion> <peeripbadreferencetime> <peeripcandidateorder> } ] [ { <peernameremotehost>
<peernamelocalinterface> <peernametimelastreceived> <peernametimeuntilnextsend>
<peernamereachabilitychange> <peernamepacketsent> <peernamepacketsreceived>
<peernamebadauthentication> <peernamebogusorigin> <peernameduplicate> <peernameduplicate>
<peernamebaddispersion> <peernamebadreferencetime> <peernamecandidateorder> } ] ] ]
```

### Syntax Description

show	Show running system information
ntp	Show NTP information
statistics	Show the NTP statistics
io	(Optional) Show the input-output statistics.
local	(Optional) Show the counters maintained by the local NTP.
memory	(Optional) Show the statistics counters related to memory code.
peer	Show the per-peer statistics counter of a peer.
ipaddr	Peer's IP address
<i>ipv4_0</i>	
name	Peer's Name
<i>s0</i>	
<i>__readonly__</i>	(Optional)
<i>iotimesincereset</i>	(Optional) time since reset
<i>ioreceivebuffers</i>	(Optional) receive buffers
<i>iofreereceivebuffers</i>	(Optional) free receive buffers
<i>iousedreceivebuffers</i>	(Optional) used receive buffers
<i>iolowwaterrefills</i>	(Optional) low water refills

<i>iodroppedpackets</i>	(Optional) dropped packets
<i>ioignoredpackets</i>	(Optional) ignored packets
<i>ioreceivedpackets</i>	(Optional) received packets
<i>iopacketsent</i>	(Optional) packets sent
<i>iopacketsnotsent</i>	(Optional) packets not sent
<i>iointerruptshandled</i>	(Optional) interrupts handled
<i>ioreceivedbyint</i>	(Optional) received by int
<i>localsystemuptime</i>	(Optional) system up time
<i>localtimesincereset</i>	(Optional) time since reset
<i>localoldversionpackets</i>	(Optional) old version packets
<i>localnewversionpackets</i>	(Optional) new version packets
<i>localunknownversionnumber</i>	(Optional) unknown version number
<i>localbadpacketformat</i>	(Optional) bad packet format
<i>localpacketsprocessed</i>	(Optional) packets processed
<i>localbadauthentication</i>	(Optional) bad authentication
<i>localpacketsrejected</i>	(Optional) packets rejected
<i>memtimesincereset</i>	(Optional) time since reset
<i>memtotalpeermemory</i>	(Optional) total peer memory
<i>memfreepeermemory</i>	(Optional) free peer memory
<i>memcallstofindpeer</i>	(Optional) calls to find peer
<i>memnewpeerallocations</i>	(Optional) new peer allocations
<i>mempeerdemobilizations</i>	(Optional) peer demobilizations
<i>memhashtablecounts</i>	(Optional) hash table counts
<i>peeripremotehost</i>	(Optional) peeripremotehost
<i>peeriplocalinterface</i>	(Optional) peeriplocalinterface
<i>peeriptimelastreceived</i>	(Optional) peeriptimelastreceived
<i>peeriptimeuntilnextsend</i>	(Optional) peeriptimeuntilnextsend
<i>peeripreachabilitychange</i>	(Optional) peeripreachabilitychange
<i>peerippacketsent</i>	(Optional) peerippacketsent

<i>peerippacketsreceived</i>	(Optional) peerippacketsreceived
<i>peeripbadauthentication</i>	(Optional) peeripbadauthentication
<i>peeripbogusorigin</i>	(Optional) peeripbogusorigin
<i>peeripduplicate</i>	(Optional) peeripduplicate
<i>peeripbaddispersion</i>	(Optional) peeripbaddispersion
<i>peeripbadreferencetime</i>	(Optional) peeripbadreferencetime
<i>peeripcandidateorder</i>	(Optional) peeripcandidateorder
<i>peername remotehost</i>	(Optional) peername remotehost
<i>peername localinterface</i>	(Optional) peername localinterface
<i>peername timelastreceived</i>	(Optional) peername timelastreceived
<i>peername timeuntilnextsend</i>	(Optional) peername timeuntilnextsend
<i>peername reachabilitychange</i>	(Optional) peername reachabilitychange
<i>peername packetsent</i>	(Optional) peername packetsent
<i>peername packetsreceived</i>	(Optional) peername packetsreceived
<i>peername badauthentication</i>	(Optional) peername badauthentication
<i>peername bogusorigin</i>	(Optional) peername bogusorigin
<i>peername duplicate</i>	(Optional) peername duplicate
<i>peername baddispersion</i>	(Optional) peername baddispersion
<i>peername badreferencetime</i>	(Optional) peername badreferencetime
<i>peername candidateorder</i>	(Optional) peername candidateorder

### Command Mode

- /exec

# show ntp status

```
show ntp status [ __readonly__ [ <distribution> ] [ <operational_state> ] ]
```

## Syntax Description

show	Show running system information
ntp	Show NTP information
status	Show the NTP distribution status
<i>__readonly__</i>	(Optional)
<i>distribution</i>	(Optional) distribution enabled/disabled
<i>operational_state</i>	(Optional) last operation status

## Command Mode

- /exec

## show ntp trusted-keys

```
show ntp trusted-keys [ __readonly__ [ { TABLE_trustkeys <key> } ] ]
```

### Syntax Description

show	Show running system information
ntp	Show NTP information
trusted-keys	Display trusted keys
__readonly__	(Optional)
TABLE_trustkeys	(Optional) trusted keys
<i>key</i>	(Optional) trusted key

### Command Mode

- /exec

# show nve adjacency mpls

```
show nve adjacency mpls [ __readonly__ TABLE_nve_mpls_adj [ { <peer-ip> | <peer-ipv6> } <evi> <label-sr>
<learn-mask> <pending-state> <adj-state> ] ]
```

## Syntax Description

show	Display NVE information
nve	Configure NVE information
adjacency	Downstream Adjacencies
mpls	Segment routing
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_mpls_adj</i>	(Optional) xml schema for sr nve parameters
<i>peer-ip</i>	(Optional) Peer IP address v4
<i>evi</i>	(Optional) EVI value
<i>label-sr</i>	(Optional) SR Label
<i>learn-mask</i>	(Optional) Learn mask for the peer
<i>pending-state</i>	(Optional) Peer adjacency pending state
<i>adj-state</i>	(Optional) Peer adjacency state

## Command Mode

- /exec

## show nve bfd neighbors

```
show nve bfd neighbors [ __readonly__ [ TABLE_nve_bfd_neighbors <if-name> [ { <neighbor-vtep-ip>
<neighbor-inner-ip> <neighbor-inner-mac> <neighbor-cc-state> } ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
bfd	BFD
neighbors	neighbors
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_bfd_neighbors</i>	(Optional) BFD neighbors schema
<i>if-name</i>	(Optional) if-name
<i>neighbor-vtep-ip</i>	(Optional) Remote VTEP IP address
<i>neighbor-inner-ip</i>	(Optional) Remote VTEP Inner IP address
<i>neighbor-inner-mac</i>	(Optional) Remote VTEP Inner MAC address
<i>neighbor-cc-state</i>	(Optional) Remote VTEP vPC consistency check state

### Command Mode

- /exec



## show nve core-links

```
show nve core-links [ __readonly__ [ TABLE_core_link <if-name> [ { <if-state> } ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
core-links	Core-links
__readonly__	(Optional)
TABLE_core_link	(Optional) xml schema for show nve core-links
<i>if-name</i>	(Optional) core-link interface name
<i>if-state</i>	(Optional) core-link interface oper state

### Command Mode

- /exec



<i>config-status</i>	(Optional) config state
<i>df-list</i>	(Optional) List of router-ips in DF list
<i>es-rt-added</i>	(Optional) ES route added to L2RIB
<i>ead-rt-added</i>	(Optional) EAD routes added to L2RIB
<i>ead-evi-rt-timer-age</i>	(Optional) EAD/EVI route advertisement timer age

**Command Mode**

- /exec

# show nve evi

show nve evi [ *\_\_readonly\_\_* *TABLE\_nve\_evi* [ *<evi>* *<sw-bd>* *<label-sr>* *<oper-state>* *<evi-state>* ] ]

## Syntax Description

show	Display NVE information
nve	Configure NVE information
evi	Ethernet Virtual Identifier
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_evi</i>	(Optional) xml schema for nve evis
<i>evi</i>	(Optional) EVI value
<i>sw-bd</i>	(Optional) VLAN information
<i>label-sr</i>	(Optional) SR Label
<i>oper-state</i>	(Optional) EVI up or down
<i>evi-state</i>	(Optional) EVI state

## Command Mode

- /exec



<i>nve-flags</i>	(Optional) nve-flags
<i>nve-if-handle</i>	(Optional) interface handle
<i>src-if-holddown-tm</i>	(Optional) hold down time
<i>src-if-holdup-tm</i>	(Optional) hold up time
<i>src-if-holddown-left</i>	(Optional) hold down time left
<i>vpc-compat-check</i>	(Optional) vpc-compat-check
<i>vip-rmac</i>	(Optional) Generated VIP MAC
<i>vip-rmac-ro</i>	(Optional) Generated VIP MAC Re-origination
<i>sm-state</i>	(Optional) sm state
<i>es-delay-restore-time</i>	(Optional) es delay restore time
<i>es-delay-restore-time-left</i>	(Optional) es delay restore time left
<i>multisite-convergence-time</i>	(Optional) multisite convergence time
<i>multisite-convergence-time-left</i>	(Optional) multisite convergence time left
<i>multisite-bgw-if</i>	(Optional) multisite border gateway interface
<i>multisite-bgw-if-ip</i>	(Optional) multisite if ip
<i>multisite-bgw-if-admin-state</i>	(Optional) multisite if admin state
<i>multisite-bgw-if-oper-state</i>	(Optional) multisite if oper state
<i>multisite-bgw-if-oper-state-down-reason</i>	(Optional) multisite if oper state down reason

### Command Mode

- /exec

# show nve mpls

```
show nve mpls [ __readonly__ [ TABLE_nve_mpls { <source-if> { <primary-ip> | <primary-ipv6> } {
<secondary-ip> | <secondary-ipv6> } <sm-state> [ <down-reason> ] } ] ]
```

## Syntax Description

show	Display NVE information
nve	Configure NVE information
mpls	Segment routing
__readonly__	(Optional)
TABLE_nve_mpls	(Optional) xml schema for sr nve parameters
<i>source-if</i>	(Optional) source-interface
<i>primary-ip</i>	(Optional) primary-ip
<i>secondary-ip</i>	(Optional) secondary-ip
<i>sm-state</i>	(Optional) sm state
<i>down-reason</i>	(Optional) down reason

## Command Mode

- /exec

## show nve multisite dci-links

```
show nve multisite dci-links [ __readonly__ [ TABLE_multisite_dci_link <if-name> [ { <if-state> } ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
multisite	multisite
dci-links	dci-links
__readonly__	(Optional)
TABLE_multisite_dci_link	(Optional) xml schema for show nve multisite dci-links
<i>if-name</i>	(Optional) dci-link interface name
<i>if-state</i>	(Optional) dci-link interface oper state

### Command Mode

- /exec



## show nve multisite fabric-links

```
show nve multisite fabric-links [ __readonly__ [ TABLE_multisite_fabric_link <if-name> [ { <if-state> } ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
multisite	multisite
fabric-links	fabric-links
__readonly__	(Optional)
TABLE_multisite_fabric_link	(Optional) xml schema for show nve multisite fabric-links
<i>if-name</i>	(Optional) fabric-link interface name
<i>if-state</i>	(Optional) fabric-link interface oper state

### Command Mode

- /exec

## show nve peers

```
show nve peers [ [ interface <nve-if> | peer-ip { <user-peer-ip> | <user-peer-ipv6> } | control-plane | data-plane
] [ detail ] ] [ control-plane-vni [ vni <vni-id> | peer-ip { <user-peer-ip> | <user-peer-ipv6> } ] ] [ controller
] [ __readonly__ TABLE_nve_peers [ [ <detail> ] [ <control-plane-vni> ] [ <if-name> ] { <peer-ip> |
<peer-ipv6> } [ <peer-state> ] [ <learn-type> ] [ <uptime> ] [ <router-mac> ] [ { <first-vni> <create-ts>
<config-vnis> <provision-state> <cp-vni> <vni-assignment-mode> <dci-fabric-location> [ <stale-timer> ] }
] [ { <vni> <learn-src> <vni-gw-mac> <peer-type> } ] ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	Show peers
interface	(Optional) Interface
<i>nve-if</i>	(Optional) NVE interface
detail	(Optional) Detailed information
peer-ip	(Optional) Show a specific peer
<i>user-peer-ip</i>	(Optional) Remote Peer IP address
control-plane	(Optional) Show peers learned via control plane
data-plane	(Optional) Show peers learned via data plane
control-plane-vni	(Optional) Show details of control plane vnis
vni	(Optional) VNI ID
<i>vni-id</i>	(Optional) Virtual Network Identifier
controller	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>detail</i>	(Optional) detail
<i>control-plane-vni</i>	(Optional) control-plane-vni
TABLE_nve_peers	(Optional) schema peer
<i>if-name</i>	(Optional) if-name
<i>peer-ip</i>	(Optional) peer-ip
<i>peer-state</i>	(Optional) peer-state
<i>learn-type</i>	(Optional) learn-type

<i>uptime</i>	(Optional) uptime
<i>router-mac</i>	(Optional) router-mac
<i>first-vni</i>	(Optional) first-vni
<i>create-ts</i>	(Optional) create-timestamp
<i>config-vnis</i>	(Optional) config-vnis
<i>provision-state</i>	(Optional) provision-state
<i>cp-vni</i>	(Optional) cp-vni
<i>vni-assignment-mode</i>	(Optional) vni assignment mode
<i>dci-fabric-location</i>	(Optional) dci-fabric-location
<i>stale-timer</i>	(Optional) stale-timer
<i>vni</i>	(Optional) vni value
<i>learn-src</i>	(Optional) learn source
<i>vni-gw-mac</i>	(Optional) vni gateway mac
<i>peer-type</i>	(Optional) peer location wan/fabric

**Command Mode**

- /exec

## show nve peers interface counters

```
show nve peers { <addr> | <addr-v6> } interface <nve-if> counters [ __readonly__ { <peer-ip> | <peer-ipv6>
} <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts> <tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes>
<rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	NVE Peer
<i>addr</i>	Remote Peer IP Address
counters	Counters
interface	Interface
<i>nve-if</i>	NVE interface
<i>__readonly__</i>	(Optional)
<i>peer-ip</i>	(Optional)
<i>tx_ucastpkts</i>	(Optional)
<i>tx_ucastbytes</i>	(Optional)
<i>tx_mcastpkts</i>	(Optional)
<i>tx_mcastbytes</i>	(Optional)
<i>rx_ucastpkts</i>	(Optional)
<i>rx_ucastbytes</i>	(Optional)
<i>rx_mcastpkts</i>	(Optional)
<i>rx_mcastbytes</i>	(Optional)

### Command Mode

- /exec

## show nve peers mpls

```
show nve peers mpls [ peer-ip { <user-peer-ip> | <user-peer-ipv6> } ] [ detail ] [ __readonly__
TABLE_nve_mpls_peers [ [ <detail> ] { <peer-ip> | <peer-ipv6> } [ <peer-state> ] [ <uptime> ] [ <create-ts>
] [ <provision-state> ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	Show peers
mpls	Segment routing peers
detail	(Optional) Detailed information
peer-ip	(Optional) Show a specific peer
<i>user-peer-ip</i>	(Optional) Remote Peer IP address
<i>__readonly__</i>	(Optional)
<i>detail</i>	(Optional) detail
TABLE_nve_mpls_peers	(Optional) schema peer
<i>peer-ip</i>	(Optional) peer-ip
<i>peer-state</i>	(Optional) peer-state
<i>uptime</i>	(Optional) uptime
<i>create-ts</i>	(Optional) create-timestamp
<i>provision-state</i>	(Optional) provision-state

### Command Mode

- /exec

## show nve peers vni interface counters

```
show nve peers { { <addr> | <addr-v6> } | all } vni { <vni-id> | all } interface <nve-if> counters [ __readonly__
TABLE_nve_peer_vni_counters { <peer-ip> | <peer-ipv6> } <vni> <tx_ucastpkts> <tx_ucastbytes>
<tx_mcastpkts> <tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	NVE Peer
<i>addr</i>	Remote Peer IP Address
all	Show counters for all peers/VNIs
vni	Virtual Network Identifier
<i>vni-id</i>	Virtual Network Identifier
counters	Counters
interface	Interface
<i>nve-if</i>	NVE interface
__readonly__	(Optional)
TABLE_nve_peer_vni_counters	(Optional)
<i>peer-ip</i>	(Optional)
<i>vni</i>	(Optional)
<i>tx_ucastpkts</i>	(Optional)
<i>tx_ucastbytes</i>	(Optional)
<i>tx_mcastpkts</i>	(Optional)
<i>tx_mcastbytes</i>	(Optional)
<i>rx_ucastpkts</i>	(Optional)
<i>rx_ucastbytes</i>	(Optional)
<i>rx_mcastpkts</i>	(Optional)
<i>rx_mcastbytes</i>	(Optional)

### Command Mode

- /exec

## show nve replication-servers

```
show nve replication-servers [ __readonly__ [ TABLE_nve_replication_servers <if-name> [ { <server-ip>
<server-state> <server-ready> } ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
replication-servers	replication-servers
__readonly__	(Optional)
TABLE_nve_replication_servers	(Optional) replcation servers schema
<i>if-name</i>	(Optional) if-name
<i>server-ip</i>	(Optional) Server IP address
<i>server-state</i>	(Optional) Server reachability state
<i>server-ready</i>	(Optional) Server ready state

### Command Mode

- /exec

## show nve vni

```
show nve vni [ { { interface <nve-if> | <vni-id> } [ detail ] } | control-plane | data-plane | summary | controller
] [ __readonly__ [ TABLE_nve_vni [ [ <detail> ] [ <if-name> <vni> <mcast> <vni-state> <mode> <type>
<flags> [ { <prvsn-state> <vlan-bd> <svi-state> <vpc-compat-check> } ] ] ] [ <summary> ] <cp-vni-count>
<cp-vni-up> <cp-vni-down> <dp-vni-count> <dp-vni-up> <dp-vni-down> ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
<i>vni-id</i>	(Optional) Virtual Network Identifier
interface	(Optional) Interface
<i>nve-if</i>	(Optional) NVE interface
detail	(Optional) Detailed information
control-plane	(Optional) show vni learned via BGP
data-plane	(Optional) show vni learned via data plane
summary	(Optional) show vni summary
controller	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_nve_vni	(Optional) vni schema
<i>detail</i>	(Optional) detail
<i>if-name</i>	(Optional) if-name
<i>vni</i>	(Optional) vni
<i>mcast</i>	(Optional) mcast
<i>vni-state</i>	(Optional) vni-state
<i>mode</i>	(Optional) vni-mode
<i>type</i>	(Optional) vni-type
<i>flags</i>	(Optional) vni-flags
<i>prvsn-state</i>	(Optional) provision-state
<i>vlan-bd</i>	(Optional) vlan-bd



<i>svi-state</i>	(Optional) svi-state
<i>vpc-compat-check</i>	(Optional) vpc-compat-check
<i>summary</i>	(Optional) summary
<i>cp-vni-count</i>	(Optional) CP vni count
<i>cp-vni-up</i>	(Optional) CP vni up count
<i>cp-vni-down</i>	(Optional) CP vni down count
<i>dp-vni-count</i>	(Optional) DP vni count
<i>dp-vni-up</i>	(Optional) DP vni up count
<i>dp-vni-down</i>	(Optional) DP vni down count

**Command Mode**

- /exec

## show nve vni counters

```
show nve vni <vni-id> counters [ __readonly__ <vni> <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts>
<tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
<i>vni-id</i>	Virtual Network Identifier
counters	Counters
<i>__readonly__</i>	(Optional)
<i>vni</i>	(Optional)
<i>tx_ucastpkts</i>	(Optional)
<i>tx_ucastbytes</i>	(Optional)
<i>tx_mcastpkts</i>	(Optional)
<i>tx_mcastbytes</i>	(Optional)
<i>rx_ucastpkts</i>	(Optional)
<i>rx_ucastbytes</i>	(Optional)
<i>rx_mcastpkts</i>	(Optional)
<i>rx_mcastbytes</i>	(Optional)

### Command Mode

- /exec

## show nve vni ingress-replication

```
show nve vni ingress-replication [ { interface <nve-if> | <vni-id> } ] [ __readonly__ [
TABLE_nve_vni_ingr_repl <if-name> <vni> [ { { <repl-ip> | <repl-ipv6> } <source> <up-time> } ] + ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
ingress-replication	ingress-replication
<i>vni-id</i>	(Optional) Virtual Network Identifier
interface	(Optional) Interface
<i>nve-if</i>	(Optional) NVE interface
<i>__readonly__</i>	(Optional)
TABLE_nve_vni_ingr_repl	(Optional) vni ingress repl schema
<i>if-name</i>	(Optional) if-name
<i>vni</i>	(Optional) vni
<i>repl-ip</i>	(Optional) Replication List
<i>source</i>	(Optional) Source
<i>up-time</i>	(Optional) Up Time

### Command Mode

- /exec

## show nve vrf

```
show nve vrf [ vrf-name ] [ __readonly__ [ TABLE_nve_vrf <vrf-name> <vni> <if-name> <gateway-mac>
[ { <ipv4-tblid> <ipv6-tblid> <vni-sw-bd> <flags> } ] ] ]
```

### Syntax Description

show	Display NVE information
nve	Configure NVE information
vrf	VRF name
<i>vrf-name</i>	(Optional) vrf name
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_vrf</i>	(Optional) vrf schema
<i>vrf-name</i>	(Optional) vrf-name
<i>vni</i>	(Optional) vni
<i>if-name</i>	(Optional) if-name
<i>gateway-mac</i>	(Optional) gateway-mac
<i>ipv4-tblid</i>	(Optional) ipv4-table-id
<i>ipv6-tblid</i>	(Optional) ipv6-table-id
<i>vni-sw-bd</i>	(Optional) vni-sw-bd
<i>flags</i>	(Optional) flags

### Command Mode

- /exec

# show nve vxlan-params

```
show nve vxlan-params [ __readonly__ <vxlan-port> ]
```

## Syntax Description

show	Display NVE information
nve	Configure NVE information
vxlan-params	VxLAN Parameters
__readonly__	(Optional)
<i>vxlan-port</i>	(Optional) vxlan-params

## Command Mode

- /exec

# show nxapi-server logs

show nxapi-server logs

## Syntax Description

show	Show running system information
nxapi-server	Show NX-API Server
logs	Show NX-API Server logs

## Command Mode

- /exec

# show nxapi

```
show nxapi [ __readonly__ <nxapi_status> [ configuration_error <c_error> ] [ <http_port> ] [ <https_port>
<ssl_issuer> <ssl_enddate> ] ]
```

## Syntax Description

show	Show running system information
nxapi	Show nxapi status
<i>__readonly__</i>	(Optional)
<i>nxapi_status</i>	(Optional) NX-API enabled status
configuration_error	(Optional) config syntax error
<i>c_error</i>	(Optional) config syntax error
<i>http_port</i>	(Optional) Configured HTTP port
<i>https_port</i>	(Optional) Configured HTTPS port
<i>ssl_issuer</i>	(Optional) Issuer information for current certificate
<i>ssl_enddate</i>	(Optional) Expiration date of current certificate

## Command Mode

- /exec







## O Show Commands

---

- [show object-group](#), on page 1904
- [show openflow hardware capabilities](#), on page 1905
- [show openflow switch](#), on page 1906
- [show openflow switch flows](#), on page 1907
- [show ospfv3](#), on page 1908
- [show ospfv3 border-routers](#), on page 1913
- [show ospfv3 database](#), on page 1915
- [show ospfv3 database database-summary](#), on page 1918
- [show ospfv3 database detail](#), on page 1920
- [show ospfv3 interface](#), on page 1925
- [show ospfv3 interface brief](#), on page 1928
- [show ospfv3 neighbors](#), on page 1930
- [show ospfv3 neighbors detail](#), on page 1932
- [show ospfv3 neighbors summary](#), on page 1935
- [show ospfv3 request-list](#), on page 1937
- [show ospfv3 retransmission-list](#), on page 1939
- [show ospfv3 route](#), on page 1941
- [show ospfv3 route summary](#), on page 1943
- [show ospfv3 statistics](#), on page 1945
- [show ospfv3 summary-address](#), on page 1949
- [show ospfv3 traffic](#), on page 1950
- [show ospfv3 virtual-links](#), on page 1954
- [show ospfv3 virtual-links brief](#), on page 1958
- [show otv](#), on page 1959

## show object-group

```
show object-group [ <name> ] [ __readonly__ TABLE_ogroup <group_type> <group_name> [ TABLE_seqno
<seqno> { <_port_op> <port0_num> | <_port_range> <port1_num> <port2_num> | <hostaddr> | <net_ip> |
<mask_ip_addr> <mask_ip_mask> | <hostipv6> | <net_ipv6> | <mask_ipv6_addr> <mask_ipv6_mask> } ]
]
```

### Syntax Description

show	Show running system information
object-group	Show configured ACL object groups
<i>name</i>	(Optional) object-group name
<i>__readonly__</i>	(Optional)
<i>group_type</i>	(Optional) Object group type
<i>group_name</i>	(Optional) Object group name
<i>seqno</i>	(Optional) Sequence number
TABLE_ogroup	(Optional)
TABLE_seqno	(Optional)
<i>_port_op</i>	(Optional) Port operator
<i>_port_range</i>	(Optional) Port range
<i>port0_num</i>	(Optional) Port number
<i>port1_num</i>	(Optional) Port number
<i>port2_num</i>	(Optional) Port number
<i>net_ip</i>	(Optional) A.B.C.D Network address of object-group member
<i>hostaddr</i>	(Optional) A.B.C.D Host address
<i>mask_ip_addr</i>	(Optional) A.B.C.D IP address
<i>mask_ip_mask</i>	(Optional) A.B.C.D IP address mask

### Command Mode

- /exec

# show openflow hardware capabilities

show openflow hardware capabilities [ pipeline <pipeline-id> ]

## Syntax Description

show	Show running system information
openflow	Show OpenFlow information
hardware	Hardware
capabilities	Capabilities
pipeline	(Optional) Pipeline id
<i>pipeline-id</i>	(Optional) Pipeline id

## Command Mode

- /exec

## show openflow switch

```
show openflow switch <switch-id> [ { controllers [ stats | { role { master | slave | equal } } ] | ports } ] [
__readonly__ <cli_output> <ctrlv4> <ctrlport> ]
```

### Syntax Description

show	Show running system information
openflow	Show OpenFlow information
switch	Logical switch id
<i>switch-id</i>	Logical switch-id to enter
controllers	(Optional) Controllers
stats	(Optional) Stats
ports	(Optional) Ports
role	(Optional) Controller role
master	(Optional) Master
slave	(Optional) Slave
equal	(Optional) Equal
<i>__readonly__</i>	(Optional)
<i>cli_output</i>	(Optional)
<i>ctrlv4</i>	(Optional)
<i>ctrlport</i>	(Optional)

### Command Mode

- /exec

# show openflow switch flows

```
show openflow switch <switch-id> flows [ [ table-id <table-id> ] [ [ pending | pending-del | controller |
configured | default | fixed ] [ brief | list | summary ] ] | stats | compare statistics { snapshot | report [ brief |
list ] } ]
```

## Syntax Description

show	Show running system information
openflow	Show OpenFlow information
switch	Logical switch id
<i>switch-id</i>	Logical switch-id to enter
flows	Flows
brief	(Optional) Brief
summary	(Optional) Summary
pending	(Optional) Pending
pending-del	(Optional) Pending delete
controller	(Optional) Controller
configured	(Optional) Configured
default	(Optional) Default
fixed	(Optional) Fixed
stats	(Optional) Stats
compare	(Optional) Compare Flow Statistics
statistics	(Optional) Flow Statistics
snapshot	(Optional) Create a reference point to compare flow stats counters
report	(Optional) Dump difference of flow stats counters from snapshot
table-id	(Optional) Table-id for the pipeline
list	(Optional) List
<i>table-id</i>	(Optional) Table ID

## Command Mode

- /exec

## show ospfv3

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <instance_number> <cname> <rid> <stateful_ha> <gr_ha> [ [ <gr_planned_only> ] [ <gr_grace_period>
] [ <gr_state> ] [ <gr_last_status> ] ] [ <gr_helper_mode> ] <support_tos0_only> <support_opaque_lsa> [
<low_mem_cond> ] <is_abr> <is_asbr> [ <max_lsa_non_self_number> ] [ <max_lsa_state> ] [
<max_lsa_warning_only> ] [ <max_lsa_current_non_self_lsa_number> ] [ <max_lsa_threshold_pct> ] [
<max_lsa_ignore_time> ] [ <max_lsa_reset_time> ] [ <max_lsa_ignore_count> ] [
<max_lsa_current_ignore_count> ] [ <max_lsa_ignore_time_left> ] [ <max_lsa_reset_time_left> ] [
<max_lsa_permanent_ignore> ] [ { TABLE_redist <proto> [ <max_lsas> ] [ <warning> ] [ <threshold> ] [
<current_count> ] } ] <admin_dist> <ref_bw> <spf_start_time> <spf_hold_time> <spf_max_time>
<lsa_start_time> <lsa_hold_time> <lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace> <spf_max_paths>
<max_metric_adver> [ [ <max_metric_time_left> ] [ <max_metric_wait_bgp> ] [ <max_metric_timeout> ]
[ <max_metric_always> ] [ <max_metric_sum_lsa> ] [ <max_metric_ext_lsa> ] ] <asext_lsa_cnt>
<asext_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total> <act_area_normal>
<act_area_stub> <act_area_nssa> [ <name_lookup> ] <no_discard_rt_ext> <no_discard_rt_int> [ <passive_dflt>
] [ <bfd_enabled> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ { TABLE_area <aname>
[ <backbone_active> ] [ <active> ] <age> <total_intf> <act_intf> <passive_intf> <loopback_intf> [
<gr_nbr_cnt> ] <stub> [ <stub_def_cost> ] <nssa> [ <no_redist> ] [ <nssa_trans> ] <no_summary> [
<ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] <spf_runs> <last_spf_run_time> [
TABLE_range <addr> <masklen> <state> <nets> <advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ]
<lsa_cnt> <lsa_crc> } ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
instance_number	(Optional)
cname	(Optional)
rid	(Optional)

<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)
TABLE_redist	(Optional)
<i>proto</i>	(Optional)
<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)

<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)
<i>area_normal</i>	(Optional)
<i>area_stub</i>	(Optional)
<i>area_nssa</i>	(Optional)
<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)



<i>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)
<i>no_redist</i>	(Optional)
<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)

TABLE_range	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 border-routers

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] border-routers [ all_routes ] [
vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_br
<type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [ <vlink_unresolved> ] [ TABLE_br_ubest_nh [
<ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf> ]
] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
border-routers	Border routers
all_routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_br	(Optional)
<i>type</i>	(Optional)
<i>addr</i>	(Optional)
<i>cost</i>	(Optional)
<i>asbr</i>	(Optional)
<i>abr</i>	(Optional)
<i>area</i>	(Optional)
<i>spf_inst</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)

TABLE_br_ubest_nh	(Optional)
<i>ubest_nh_intf</i>	(Optional)
TABLE_br_mbest_nh	(Optional)
<i>mbest_nh_intf</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 database

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ [ [ router | network
| intra-area-prefix | inter-area { irouter | iprefix } | nssa-external | area-unknown | [ [ { link | link-unknown |
grace } [ <interface> ] ] ] ] [ area <area-id-ip> ] ] | external [ tag <tag_val> ] | as-unknown [ <lsid> ] [
self-originated | adv-router <adv-id> | adv-router-name <adv-name> ] ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db3_lsa [ <name> ] [ <area> ] [ <id>
] [ <advrtr> ] [ <age> ] [ <seqno> ] [ <corrupt> ] [ <rtr_num_links> ] [ <net_num_rtr> ] [ <prefix> ] [
<inter_rid> ] [ <link_if> ] [ <intra_ref_type> ] [ <intra_ref_lsid> ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
router	(Optional) Display router LSAs
network	(Optional) Display network LSAs
inter-area	(Optional) Display inter-area LSAs
iprefix	(Optional) Display Inter-Area-Prefix LSAs
irouter	(Optional) Display Inter-Area-Router LSAs
nssa-external	(Optional) Display NSSA-external LSAs
area-unknown	(Optional) Display area-scope unknown LSAs
external	(Optional) Display AS-external LSAs
as-unknown	(Optional) Display as-scope unknown LSAs
grace	(Optional) Display Grace LSAs
link	(Optional) Display Link LSAs
link-unknown	(Optional) Display link-scope unknown LSAs
<i>interface</i>	(Optional) OSPF enabled interface

<i>intra-area-prefix</i>	(Optional) Display Intra-Area-Prefix LSAs
<i>self-originated</i>	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
<i>adv-router</i>	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
<i>adv-router-name</i>	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
<i>area</i>	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
<i>tag</i>	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_db3_lsa</i>	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>age</i>	(Optional)
<i>seqno</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
<i>net_num_rtr</i>	(Optional)
<i>inter_rid</i>	(Optional)
<i>link_if</i>	(Optional)
<i>intra_ref_type</i>	(Optional)

<i>intra_ref_lsid</i>	(Optional)
-----------------------	------------

**Command Mode**

- /exec

## show ospfv3 database database-summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database database-summary
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [
TABLE_dbsum [ TABLE_dbsum_area <area> [ TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count>
] <area_lsa_total> ] [ TABLE_dbsum_all [ TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ]
<non_self_lsa_total> <lsa_total> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
area	(Optional)
TABLE_dbsum_area_lsa	(Optional)
area_lsa_name	(Optional)
area_lsa_count	(Optional)
area_lsa_total	(Optional)
TABLE_dbsum_all	(Optional)



TABLE_dbsum_lsa_all	(Optional)
<i>lsa_name</i>	(Optional)
<i>lsa_count</i>	(Optional)
<i>non_self_lsa_total</i>	(Optional)
<i>lsa_total</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 database detail

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ [ [ router | network
| intra-area-prefix | inter-area { irouter | iprefix } | nssa-external | area-unknown | [ [ { link | link-unknown |
grace } [ <interface> ] ] ] ] area <area-id-ip> ] | external [ tag <tag_val> ] | as-unknown [ <lsid> ] [
self-originated | adv-router <adv-id> | adv-router-name <adv-name> ] detail [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db3_lsa [ <name>
] [ <area> ] [ TABLE_lsd <age> <maxage> <wrapping> <dummy> <flush_pending> <type> [ <intf> ] <id>
<advtr> <seqno> <cksum> <len> [ <corrupt> ] [ <rtr_abr> ] [ <rtr_asbr> ] [ <rtr_translate> ] [ <rtr_vlink_end>
] [ <rtr_options> ] [ <rtr_num_links> ] [ TABLE_rlsa [ <rtr_link_type> ] [ <rtr_link_metric> ] [ <rtr_link_ifid>
] [ <rtr_link_nbr_ifid> ] [ <rtr_link_nbr_rid> ] ] [ <net_options> ] [ TABLE_nlsa [ <net_rtr> ] ] [ <ia_prefix>
] [ <ia_prefix_options> ] [ <ia_prefix_metric> ] [ <ia_rtr_options> ] [ <ia_rtr_metric> ] [ <ia_rtr_rid> ] [
<asext_prefix> ] [ <asext_options> ] [ <asext_metric_type2> ] [ <asext_metric> ] [ <asext_fwd_addr> ] [
<asext_tag> ] [ <asext_ref_lstype> ] [ <asext_ref_lsid> ] [ <link_priority> ] [ <link_options> ] [ <link_laddr>
] [ <link_num_prefix> ] [ TABLE_linklsa [ <link_prefix> ] [ <link_prefix_options> ] ] [ <intra_num_prefix>
] [ <intra_ref_lstype> ] [ <intra_ref_lsid> ] [ <intra_ref_advtr> ] [ TABLE_iaplsa [ <intra_prefix> ] [
<intra_prefix_options> ] [ <intra_prefix_metric> ] [ <corrupted_length> ] ] [ <tlv_type> ] [ <tlv_len> ] [
<tlv_data> ] [ <tlv_unknown> ] [ <gr_interval> ] [ <gr_reason> ] [ <unknown> ] [ <data_len> ] [ <data> ] ]
] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
router	(Optional) Display router LSAs
network	(Optional) Display network LSAs
inter-area	(Optional) Display inter-area LSAs
iprefix	(Optional) Display Inter-Area-Prefix LSAs
irouter	(Optional) Display Inter-Area-Router LSAs
nssa-external	(Optional) Display NSSA-external LSAs
area-unknown	(Optional) Display area-scope unknown LSAs

external	(Optional) Display AS-external LSAs
as-unknown	(Optional) Display as-scope unknown LSAs
grace	(Optional) Display Grace LSAs
link	(Optional) Display Link LSAs
link-unknown	(Optional) Display link-scope unknown LSAs
<i>interface</i>	(Optional) OSPF enabled interface
intra-area-prefix	(Optional) Display Intra-Area-Prefix LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
detail	Display LSA in detail
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_db3_lsa	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
TABLE_lsdb	(Optional)
<i>age</i>	(Optional)
<i>maxage</i>	(Optional)

<i>wrapping</i>	(Optional)
<i>dummy</i>	(Optional)
<i>flush_pending</i>	(Optional)
<i>type</i>	(Optional)
<i>intf</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>len</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_abr</i>	(Optional)
<i>rtr_asbr</i>	(Optional)
<i>rtr_translate</i>	(Optional)
<i>rtr_vlink_end</i>	(Optional)
<i>rtr_options</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
TABLE_rlsa	(Optional)
<i>rtr_link_type</i>	(Optional)
<i>rtr_link_metric</i>	(Optional)
<i>rtr_link_ifid</i>	(Optional)
<i>rtr_link_nbr_ifid</i>	(Optional)
<i>rtr_link_nbr_rid</i>	(Optional)
<i>net_options</i>	(Optional)
TABLE_nlsa	(Optional)
<i>net_rtr</i>	(Optional)
<i>ia_prefix_options</i>	(Optional)
<i>ia_prefix_metric</i>	(Optional)
<i>ia_rtr_options</i>	(Optional)

<i>ia_rtr_metric</i>	(Optional)
<i>ia_rtr_rid</i>	(Optional)
<i>asext_options</i>	(Optional)
<i>asext_metric_type2</i>	(Optional)
<i>asext_metric</i>	(Optional)
<i>asext_tag</i>	(Optional)
<i>asext_ref_lstype</i>	(Optional)
<i>asext_ref_lsid</i>	(Optional)
<i>link_priority</i>	(Optional)
<i>link_options</i>	(Optional)
<i>link_num_prefix</i>	(Optional)
TABLE_linklsa	(Optional)
<i>link_prefix_options</i>	(Optional)
<i>intra_num_prefix</i>	(Optional)
<i>intra_ref_lstype</i>	(Optional)
<i>intra_ref_lsid</i>	(Optional)
<i>intra_ref_advrtr</i>	(Optional)
TABLE_iaplsa	(Optional)
<i>intra_prefix_options</i>	(Optional)
<i>intra_prefix_metric</i>	(Optional)
<i>corrupted_length</i>	(Optional)
<i>tlv_type</i>	(Optional)
<i>tlv_len</i>	(Optional)
<i>tlv_data</i>	(Optional)
<i>tlv_unknown</i>	(Optional)
<i>gr_interval</i>	(Optional)
<i>gr_reason</i>	(Optional)
<i>unknown</i>	(Optional)
<i>data_len</i>	(Optional)

<i>data</i>	(Optional)
-------------	------------

**Command Mode**

- /exec

## show ospfv3 interface

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ <interface> | vrf {
<vrf-name> | <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf
<ifname> <admin_status> <proto_status> <addr> [ <masklen> ] [ <inst_id> ] <area> [ <if_cfg> ] <state_str>
<type_str> <cost> [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ <bfd_enabled> ] <index>
[ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [
<bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [ <dead_interval>
] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <lsu_timer> ] [ <lsack_timer>
] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <multi_area_cnt> ] [ <multi_area_adj> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>admin_status</i>	(Optional)
<i>proto_status</i>	(Optional)
<i>masklen</i>	(Optional)
<i>inst_id</i>	(Optional)

<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value
<i>bfd_enabled</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)



<i>link_lsa_crc</i>	(Optional)
<i>multi_area_cnt</i>	(Optional)
<i>multi_area_adj</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 interface brief

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str> <nbr_total> <admin_status> ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPFv3 interfaces
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>intf_count</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>index</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>state_str</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>admin_status</i>	(Optional)

### Command Mode

- /exec

## show ospfv3 neighbors

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ { { <interface> [
<neighbor> | <neighbor-name> ] } | { [ <neighbor> | <neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] } } ] [ __readonly__ TABLE_ctx <ptag> <cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state>
<drstate> <uptime> <ifid> <intf> [ <multiarea> ] <addr> ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
neighbor-name	(Optional) DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
nbrcount	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
priority	(Optional)
state	(Optional)
drstate	(Optional)
uptime	(Optional)

<i>ifid</i>	(Optional)
<i>intf</i>	(Optional)
<i>multiarea</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 neighbors detail

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ <interface> ] [
<neighbor> ] detail [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_nbr <rid> <addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state>
] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [
<dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <helloptions> <dbdoptions>
<lastnonhello> [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [
<helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [
<sendlsreqreply> ] [ <sradsid> ] [ <sradjflags> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
detail	Show detailed neighbor display
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
area	(Optional)

<i>intf</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsregrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>regrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)

<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>sradjsid</i>	(Optional)
<i>sradjflags</i>	(Optional)

**Command Mode**

- /exec



## show ospfv3 neighbors summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ <interface> ]
summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname>
TABLE_intf { <ifname> | <total> } <down> <attempt> <init> <twoway> <exstart> <exchange> <loading>
<full> <if_total> ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
summary	Summary of neighbors
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_intf	(Optional)
ifname	(Optional)
total	(Optional)
down	(Optional)
attempt	(Optional)
init	(Optional)
twoway	(Optional)
exstart	(Optional)

<i>exchange</i>	(Optional)
<i>loading</i>	(Optional)
<i>full</i>	(Optional)
<i>if_total</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 request-list

```
show [ ipv6 ] ospfv3 [ <tag> ] request-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__ [
TABLE_ctx <ptag> <cname> [ TABLE_lsreq <nbr_rid> <intf> <nbr_addr> <total> [ TABLE_lsa [ <type>
][ <lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
request-list	Link state request list
<i>interface</i>	OSPF enabled interface
<i>ip-addr</i>	Neighbor router ID
<i>neighbor-name</i>	DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_lsreq	(Optional)
<i>nbr_rid</i>	(Optional)
<i>intf</i>	(Optional)
<i>total</i>	(Optional)
TABLE_lsa	(Optional)
<i>type</i>	(Optional)
<i>lsid</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>age</i>	(Optional)

### Command Mode

- /exec

## show ospfv3 retransmission-list

```
show [ ipv6 ] ospfv3 [ <tag> ] retransmission-list { <routerid> | <router-name> } <interface> [ __readonly__
[ TABLE_ctx <ptag> <cname> [ TABLE_rxmit <nbr_rid> <intf> <nbr_addr> [ <timer_running> ] [
<timer_due> ] [ TABLE_lsa [ <type> ] [ <lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
retransmission-list	Link state retransmission list
<i>routerid</i>	Neighbor router ID
<i>router-name</i>	DNS Name of the router
<i>interface</i>	OSPF enabled interface
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_rxmit	(Optional)
<i>nbr_rid</i>	(Optional)
<i>intf</i>	(Optional)
<i>timer_running</i>	(Optional)
<i>timer_due</i>	(Optional)
TABLE_lsa	(Optional)
<i>type</i>	(Optional)
<i>lsid</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>age</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 route

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route [ <ipv6-prefix> [
longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ <hdr_addr> ] [ <hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> [ <in_ulib>
] <in_rib> <direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr>
] [ <ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_sham_link> ] [
<ubest_nh_te_tun> ] [ <ubest_nh_in_rib> ] ] [ TABLE_route_mbest_nh [ <mbest_nh_addr> ] [
<mbest_nh_intf> ] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
longer-prefixes	(Optional) Show exact match and more specific routes
all_routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>hdr_masklen</i>	(Optional)
TABLE_route	(Optional)
<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_ulib</i>	(Optional)
<i>in_rib</i>	(Optional)

<i>direct</i>	(Optional)
<i>area</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_route_ubest_nh	(Optional)
<i>ubest_nh_intf</i>	(Optional)
<i>ubest_cost</i>	(Optional)
<i>distance</i>	(Optional)
<i>ubest_nh_direct</i>	(Optional)
<i>ubest_nh_sham_link</i>	(Optional)
<i>ubest_nh_te_tun</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
TABLE_route_mbest_nh	(Optional)
<i>mbest_nh_intf</i>	(Optional)
<i>mbest_cost</i>	(Optional)
<i>mbest_nh_direct</i>	(Optional)
<i>mbest_nh_in_rib</i>	(Optional)

**Command Mode**

- /exec



## show ospfv3 route summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route [ <ipv6-prefix> [
longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_route <total_routes> <total_paths> [ TABLE_route_type <path_type>
<path_routes> <path_paths> ] [ TABLE_route_masklen <masklen> <masklen_routes> <masklen_paths> ] ]
]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_route	(Optional)
<i>total_routes</i>	(Optional)
<i>total_paths</i>	(Optional)
TABLE_route_type	(Optional)
<i>path_type</i>	(Optional)
<i>path_routes</i>	(Optional)
<i>path_paths</i>	(Optional)
TABLE_route_masklen	(Optional)

<i>masklen</i>	(Optional)
<i>masklen_routes</i>	(Optional)
<i>masklen_paths</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 statistics

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats <ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_rcv> <nbr_state_change> <nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full> <spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush> <net_generate> <net_refresh> <net_flush> <net_other_flush> <inter_prefix_generate> <inter_prefix_refresh> <inter_prefix_flush> <inter_prefix_other_flush> <inter_router_generate> <inter_router_refresh> <inter_router_flush> <inter_router_other_flush> <asext_generate> <asext_refresh> <asext_flush> <asext_other_flush> <link_generate> <link_refresh> <link_flush> <link_other_flush> <intra_prefix_generate> <intra_prefix_refresh> <intra_prefix_flush> <intra_prefix_other_flush> <unknown_generate> <unknown_refresh> <unknown_flush> <unknown_other_flush> <limbo_lsa_count> <limbo_lsa_hwm> <limbo_lsa_deleted> <limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [ <limbo_timer> ] <helloq_size> <helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size> <floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [ TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc> <buf_free> ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
__readonly__	(Optional)
TABLE_stats	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
rid_change	(Optional)
dr_elections	(Optional)
older_lsa_rcv	(Optional)

<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>inter_prefix_generate</i>	(Optional)
<i>inter_prefix_refresh</i>	(Optional)
<i>inter_prefix_flush</i>	(Optional)
<i>inter_prefix_other_flush</i>	(Optional)
<i>inter_router_generate</i>	(Optional)
<i>inter_router_refresh</i>	(Optional)
<i>inter_router_flush</i>	(Optional)
<i>inter_router_other_flush</i>	(Optional)
<i>asext_generate</i>	(Optional)
<i>asext_refresh</i>	(Optional)
<i>asext_flush</i>	(Optional)
<i>asext_other_flush</i>	(Optional)

<i>link_generate</i>	(Optional)
<i>link_refresh</i>	(Optional)
<i>link_flush</i>	(Optional)
<i>link_other_flush</i>	(Optional)
<i>intra_prefix_generate</i>	(Optional)
<i>intra_prefix_refresh</i>	(Optional)
<i>intra_prefix_flush</i>	(Optional)
<i>intra_prefix_other_flush</i>	(Optional)
<i>unknown_generate</i>	(Optional)
<i>unknown_refresh</i>	(Optional)
<i>unknown_flush</i>	(Optional)
<i>unknown_other_flush</i>	(Optional)
<i>limbo_lsa_count</i>	(Optional)
<i>limbo_lsa_hwm</i>	(Optional)
<i>limbo_lsa_deleted</i>	(Optional)
<i>limbo_lsa_revived</i>	(Optional)
<i>limbo_runs</i>	(Optional)
<i>limbo_lsa_last_time_hwm</i>	(Optional)
<i>limbo_timer</i>	(Optional)
<i>helloq_size</i>	(Optional)
<i>helloq_max_size</i>	(Optional)
<i>helloq_hwm</i>	(Optional)
<i>helloq_drops</i>	(Optional)
<i>helloq_last_hwm_time</i>	(Optional)
<i>floodq_size</i>	(Optional)
<i>floodq_max_size</i>	(Optional)
<i>floodq_hwm</i>	(Optional)
<i>floodq_drops</i>	(Optional)
<i>floodq_last_hwm_time</i>	(Optional)

<i>lsdb_add_fail</i>	(Optional)
TABLE_buffer_detail	(Optional)
<i>buf_size</i>	(Optional)
<i>buf_size_huge</i>	(Optional)
<i>buf_in_use</i>	(Optional)
<i>buf_hwm</i>	(Optional)
<i>buf_perm</i>	(Optional)
<i>buf_alloc</i>	(Optional)
<i>buf_free</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 summary-address

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] summary-address [ private ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ctx <ptag> <cname> <rid> [
TABLE_sum <addr> <masklen> [ <metric> ] [ <tag> ] [ <pending> ] ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)
TABLE_sum	(Optional)
<i>masklen</i>	(Optional)
<i>metric</i>	(Optional)
<i>pending</i>	(Optional)

### Command Mode

- /exec

## show ospfv3 traffic

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> [ detail ]
| [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_traf <ptag>
<cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out> <lsu_first_trans> <lsu_retrans> <lsu_for_lsreq>
<lsu_nbr_trans> <throttle_out> <throttle_out_token> <throttle_out_ip> <lsa_ignored> <lsa_dropped_spf>
<lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out> <pkt_errors_in> <pkt_errors_out> <hello_errors_in>
<dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in> <lsacks_errors_in> <pkt_unknown_in>
<pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc> <dup_rtr_id> <dup_src_addr>
<invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf> <wrong_area>
<invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> [ <bad_auth> ] [
<bad_reserved> ] [ <pkt_no_vrf> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
<i>interface</i>	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
<i>__readonly__</i>	(Optional)
TABLE_traf	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pkt_in</i>	(Optional)



<i>pkt_out</i>	(Optional)
<i>lsu_first_trans</i>	(Optional)
<i>lsu_retrans</i>	(Optional)
<i>lsu_for_lsreq</i>	(Optional)
<i>lsu_nbr_trans</i>	(Optional)
<i>throttle_out</i>	(Optional)
<i>throttle_out_token</i>	(Optional)
<i>throttle_out_ip</i>	(Optional)
<i>lsa_ignored</i>	(Optional)
<i>lsa_dropped_spf</i>	(Optional)
<i>lsa_dropped_gr</i>	(Optional)
<i>pkt_drops_in</i>	(Optional)
<i>pkt_drops_out</i>	(Optional)
<i>pkt_errors_in</i>	(Optional)
<i>pkt_errors_out</i>	(Optional)
<i>hello_errors_in</i>	(Optional)
<i>dbds_errors_in</i>	(Optional)
<i>lsreqs_errors_in</i>	(Optional)
<i>lsus_errors_in</i>	(Optional)
<i>lsacks_errors_in</i>	(Optional)
<i>pkt_unknown_in</i>	(Optional)
<i>pkt_unknown_out</i>	(Optional)
<i>pkt_no_ospf_intf</i>	(Optional)
<i>bad_version</i>	(Optional)
<i>bad_crc</i>	(Optional)
<i>dup_rtr_id</i>	(Optional)
<i>dup_src_addr</i>	(Optional)
<i>invalid_src_addr</i>	(Optional)
<i>invalid_dst_addr</i>	(Optional)

<i>non_existing_nbr</i>	(Optional)
<i>pkt_passive_intf</i>	(Optional)
<i>wrong_area</i>	(Optional)
<i>invalid_pkt_len</i>	(Optional)
<i>nbr_changed_routerid_ipaddr</i>	(Optional)
<i>nbr_changed_interfaceid</i>	(Optional)
<i>bad_auth</i>	(Optional)
<i>bad_reserved</i>	(Optional)
<i>pkt_no_vrf</i>	(Optional)
<i>hellos_in</i>	(Optional)
<i>dbds_in</i>	(Optional)
<i>lsreqs_in</i>	(Optional)
<i>lsus_in</i>	(Optional)
<i>lsacks_in</i>	(Optional)
<i>hellos_out</i>	(Optional)
<i>dbds_out</i>	(Optional)
<i>lsreqs_out</i>	(Optional)
<i>lsus_out</i>	(Optional)
<i>lsacks_out</i>	(Optional)
<i>hellos_in_hq</i>	(Optional)
<i>dbds_in_hq</i>	(Optional)
<i>lsreqs_in_flq</i>	(Optional)
<i>lsus_in_flq</i>	(Optional)
<i>lsacks_in_flq</i>	(Optional)
<i>lsas_in_dbds_in</i>	(Optional)
<i>lsas_in_lsreqs_in</i>	(Optional)
<i>lsas_in_lsus_in</i>	(Optional)
<i>lsas_in_lsacks_in</i>	(Optional)
<i>lsas_in_dbds_out</i>	(Optional)

<i>lsas_in_lsreqs_out</i>	(Optional)
<i>lsas_in_lsus_out</i>	(Optional)
<i>lsas_in_lsacks_out</i>	(Optional)
<i>lsas_in_rxmt_lsus_out</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 virtual-links

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] virtual-links [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ _readonly_ TABLE_ctx <ptag> <cname> [ TABLE_vlink <name> <nbr_rid>
<if_state> <transit_area> <nh_intf> <nbr_addr> [ <transit_area_stub> ] [ <transit_area_nssa> ] <addr> [
<masklen> ] <inst_id> <area> [ <if_cfg> ] <state_str> <type_str> <cost> <index> [ <passive> ] [ <mpls> ]
[ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ]
[ <nbr_flood> ] [ <nbr_adjst> ] [ <gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [
<rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [
<netlsa_throt_timer> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <state> ] [ <transition> ] [ <lastchange> ] [
<priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [
<dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] [ <hellooptions> ] [ <dbdoptions> ] [
<lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [
<helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [
<sendlsreqreply> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] ] ]
```

### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
_readonly_	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_vlink	(Optional)
name	(Optional)
nbr_rid	(Optional)
if_state	(Optional)
transit_area	(Optional)

<i>nh_intf</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>masklen</i>	(Optional)
<i>inst_id</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)

<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)

<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value

#### Command Mode

- /exec

# show ospfv3 virtual-links brief

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] virtual-links brief [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <vlink_count> [
TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost> <if_state> ] ]
```

## Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPFv3 virtual links
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
vlink_count	(Optional)
TABLE_vlink	(Optional)
nbr_rid	(Optional)
vlink_num	(Optional)
transit_area	(Optional)
cost	(Optional)
if_state	(Optional)

## Command Mode

- /exec



# show otv

```
show otv [ <overlay-if> [ vpn <vpn-name> ] ]
```

## Syntax Description

show	Display OTV information
otv	Configure OTV information
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name

## Command Mode

- /exec





## P Show Commands

---

- [show param-list](#), on page 1964
- [show password secure-mode](#), on page 1965
- [show password strength-check](#), on page 1966
- [show plb](#), on page 1967
- [show plb analytics](#), on page 1971
- [show plb vrf](#), on page 1973
- [show pmap-int-br interface br](#), on page 1974
- [show pmap-int](#), on page 1975
- [show pnp lease](#), on page 1976
- [show pnp posix\\_pi configs](#), on page 1977
- [show pnp posix\\_pi tech-support](#), on page 1978
- [show pnp profiles](#), on page 1979
- [show pnp status](#), on page 1980
- [show pnp summary](#), on page 1981
- [show pnp version](#), on page 1982
- [show policy-map](#), on page 1983
- [show policy-map interface control-plane](#), on page 1988
- [show policy-map system](#), on page 1991
- [show policy-map type control-plane](#), on page 1995
- [show policy-map type network-qos](#), on page 1998
- [show port-channel capacity](#), on page 2000
- [show port-channel compatibility-parameters](#), on page 2001
- [show port-channel database](#), on page 2002
- [show port-channel fast-convergence](#), on page 2004
- [show port-channel load-balance](#), on page 2005
- [show port-channel load-balance forwarding-path1 interface src-interface](#), on page 2007
- [show port-channel load-balance hardware forwarding-path interface source](#), on page 2009
- [show port-channel rbh-distribution](#), on page 2011
- [show port-channel scale-fanout](#), on page 2012
- [show port-channel summary](#), on page 2013
- [show port-channel traffic](#), on page 2014
- [show port-channel usage](#), on page 2015
- [show port-license](#), on page 2016

- [show port-profile](#), on page 2017
- [show port-profile brief](#), on page 2019
- [show port-profile expand-interface](#), on page 2020
- [show port-profile sync-status](#), on page 2021
- [show port-profile usage](#), on page 2022
- [show port-security](#), on page 2023
- [show port-security address](#), on page 2024
- [show port-security address interface](#), on page 2025
- [show port-security interface](#), on page 2026
- [show port-security state](#), on page 2027
- [show port naming](#), on page 2028
- [show postcard-telemetry exporter](#), on page 2029
- [show postcard-telemetry flow-profile](#), on page 2030
- [show postcard-telemetry monitor](#), on page 2031
- [show postcard-telemetry queue-profile](#), on page 2032
- [show postcard-telemetry sessions](#), on page 2033
- [show postcard-telemetry watchlist](#), on page 2034
- [show power inline](#), on page 2035
- [show power inline](#), on page 2036
- [show power inline police](#), on page 2037
- [show power inline priority](#), on page 2038
- [show privilege](#), on page 2039
- [show processes](#), on page 2040
- [show processes cpu](#), on page 2041
- [show processes cpu history](#), on page 2042
- [show processes cpu history data](#), on page 2043
- [show processes log](#), on page 2044
- [show processes log details](#), on page 2045
- [show processes log pid](#), on page 2046
- [show processes log vdc-all](#), on page 2047
- [show processes memory](#), on page 2048
- [show processes memory physical](#), on page 2049
- [show processes memory shared](#), on page 2050
- [show processes vdc](#), on page 2053
- [show processes vdc cpu](#), on page 2054
- [show processes vdc log](#), on page 2055
- [show processes vdc log details](#), on page 2056
- [show processes vdc log pid](#), on page 2057
- [show processes vdc memory](#), on page 2058
- [show pss debug](#), on page 2059
- [show ptp brief](#), on page 2060
- [show ptp clock](#), on page 2061
- [show ptp clock foreign-masters record](#), on page 2063
- [show ptp corrections](#), on page 2064
- [show ptp counters interface](#), on page 2065
- [show ptp packet-trace](#), on page 2066

- [show ptp parent](#), on page 2067
- [show ptp port interface](#), on page 2068
- [show ptp time-property](#), on page 2070

# show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ TABLE_param_list
<param_list_name> [ <param_list_var> ] [ <param_list_type> ] [ TABLE_instance <param_instance_name>
[ <param_instance_var> ] [ <param_instance_val> ] ] ]
```

## Syntax Description

show	Show running system information
param-list	Show param-list
param-list-name	(Optional) param list name
<i>plistname</i>	(Optional) Enter the name of the param-list
show-instance	(Optional) show instances for the param list
<i>__readonly__</i>	(Optional)
TABLE_param_list	(Optional)
<i>param_list_name</i>	(Optional) Parameter List Name
<i>param_list_var</i>	(Optional) Parameter Name
<i>param_list_type</i>	(Optional) Param Type
TABLE_instance	(Optional)
<i>param_instance_name</i>	(Optional) Instance Name
<i>param_instance_var</i>	(Optional) Instance Variable Name
<i>param_instance_val</i>	(Optional) Instance Variable Value

## Command Mode

- /exec

# show password secure-mode

```
show password secure-mode [ __readonly__ { secure_mode <secure_mode_status> } ]
```

## Syntax Description

show	Show running system information
password	Password for the user
secure-mode	secure mode for changing passwords
__readonly__	(Optional)
secure_mode	(Optional) run time status about xml
<i>secure_mode_status</i>	(Optional) Run time status about secure mode

## Command Mode

- /exec

# show password strength-check

```
show password strength-check [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

show	Show running system information
password	Password for the user
strength-check	Strength check of password
__readonly__	(Optional)
operation_status	(Optional) run-time information about password strength-check
<i>o_status</i>	(Optional) operational status of password strength check

## Command Mode

- /exec



## show plb

```
show plb [ service <service-name> ] [ brief ] [ __readonly__ <is_firstentry> <is_detail> <is_active>
<is_firstentry_routemap> <is_firstentry_standby> <is_firstentry_acl> <is_lastentry> [ TABLE_summary
<service_name> <state> [ <reason> ] <lb_scheme> [ <interface> ] <buckets> [ <vrf_name> ] [ <excl_acl> ]
[ <src_interface> ] [ TABLE_device <device_grp> <dg_probe> <dg_probe_port> ] [ TABLE_route_map [
<route_map> ] <interface> <r_status> ] [ TABLE_vip [ <vip_ip> ] [ <vip_probe> ] [ <vip_port> ] [
<vip_dgname> ] [ <ace_name> ] [ <ace_seq> ] [ <ace_ip> ] [ <ace_protocol> ] [ <ace_port> ] [
TABLE_vip_node [ <vip_node> ] [ <vip_nodev6> ] <vip_config> <vip_weight> <vip_node_probe>
<vip_node_probe_port> <vip_node_probe_ip> <vip_status> <vip_track_id> <vip_ip_sla_id> [
TABLE_vip_standby [ <vip_standby_ip> ] [ <vip_standby_ipv6> ] <vip_standby_config>
<vip_standby_weight> <vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip>
<vip_standby_status> <vip_standby_track_id> <vip_standby_sla_id> ] [ TABLE_vip_acl [ <vip_access_list>
] ] ] [ TABLE_node [ <node> ] [ <nodev6> ] <config> <weight> <node_probe> <node_probe_port>
<node_probe_ip> <status> <track_id> <ip_sla_id> [ TABLE_standby [ <standby_ip> ] [ <standby_ipv6> ]
<standby_config> <standby_weight> <standby_probe> <standby_probe_port> <standby_probe_ip>
<standby_status> <standby_track_id> <standby_sla_id> ] [ TABLE_acl [ <access_list> ] ] ] ] ] ]
```

### Syntax Description

show	Show running system information
plb	Display PLB service details
service	(Optional) PLB details for specific service
<i>service-name</i>	(Optional) Specify PLB service name
brief	(Optional) Display PLB service in brief
<i>__readonly__</i>	(Optional) Read Only
<i>is_firstentry</i>	(Optional)
<i>is_detail</i>	(Optional)
<i>is_active</i>	(Optional)
<i>is_firstentry_routemap</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
<i>is_lastentry</i>	(Optional)
<i>is_firstentry_standby</i>	(Optional)
TABLE_summary	(Optional)
<i>service_name</i>	(Optional) PLB service name
<i>lb_scheme</i>	(Optional) lb scheme
<i>interface</i>	(Optional) interface

<i>src_interface</i>	(Optional) source interface for probe
<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>excl_acl</i>	(Optional) exclude 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
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
<i>ace_name</i>	(Optional) ace information
<i>ace_seq</i>	(Optional) ace information
<i>ace_ip</i>	(Optional) ace information
<i>ace_protocol</i>	(Optional) ace information
<i>ace_port</i>	(Optional) ace information
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 plb analytics

```
show plb analytics [ service <service-name> ] [ src { <sip> | <sipv6> } | node { <nip> | <nipv6> } | vip {
<vip> | <vipv6> } | device-group <group-name> ] [ brief ] [ __readonly__ <plbshowinfo-stats-svc-hdr> [
TABLE_stats_svc <plbshowinfo-stats-service_name> <plbshowinfo-stats-dev-grp> <plbshowinfo-stats-vip>
<plbshowinfo-stats-vip-pkts> <plbshowinfo-stats-vip-pkts-percentage> [ <plbshowinfo-stats-ace-seq> ] [
<plbshowinfo-stats-ace-ip> ] <plbshowinfo-stats-bkt-hdr> [ TABLE_stats_bkt <plbshowinfo-stats-acl> [
<plbshowinfo-stats-oper-node> ] <plbshowinfo-stats-node-mode> <plbshowinfo-stats-orig-node>
<plbshowinfo-stats-node-pkts> <plbshowinfo-stats-node-pkts-percentage> [ <plbshowinfo-stats-acl-pkts> ]
[ <plbshowinfo-for-ace> ] ] ] <plb-show-end> [ <plb-true-end> ] ]
```

### Syntax Description

show	Show running system information
plb	PLB service
analytics	PLB analytics information
service	(Optional) PLB analytics for specific service
<i>service-name</i>	(Optional) Specify plb service name
src	(Optional) Analytics information for source (bucket) ip
node	(Optional) Analytics information for destination device group node/server ip
vip	(Optional) Analytics information for virtual ip
device-group	(Optional) Analytics information of specified device group
<i>group-name</i>	(Optional) Specify device group name
<i>sip</i>	(Optional) Specify source ipv4 address
<i>nip</i>	(Optional) Specify destination ipv4 address
<i>vip</i>	(Optional) Specify virtual ipv4 address
brief	(Optional) Brief analytics information
__readonly__	(Optional) Read Only
<i>plbshowinfo-stats-svc-hdr</i>	(Optional) PLB analytics service header
TABLE_stats_svc	(Optional) plb stats service
<i>plbshowinfo-stats-service_name</i>	(Optional) PLB analytics service name
<i>plbshowinfo-stats-dev-grp</i>	(Optional) PLB analytics device group
<i>plbshowinfo-stats-vip</i>	(Optional) PLB analytics VIP IP

<i>plbshowinfo-stats-vip-pkts</i>	(Optional) PLB analytics virtual ip pkt_count
<i>plbshowinfo-stats-vip-pkts-percentage</i>	(Optional) PLB analytics virtual ip pkts percentage
<i>plbshowinfo-stats-ace-seq</i>	(Optional) PLB analytics ACE name and sequence number
<i>plbshowinfo-stats-ace-ip</i>	(Optional) PLB analytics ACE ip/mask/prefix
<i>plbshowinfo-stats-bkt-hdr</i>	(Optional) PLB analytics bucket header
TABLE_stats_bkt	(Optional) plb stats bucket
<i>plbshowinfo-stats-acl</i>	(Optional) PLB analytics bucket/acl name
<i>plbshowinfo-stats-oper-node</i>	(Optional) PLB analytics Operational node ip
<i>plbshowinfo-stats-node-mode</i>	(Optional) PLB analytics node mode
<i>plbshowinfo-stats-orig-node</i>	(Optional) PLB analytics Original node ip
<i>plbshowinfo-stats-node-pkts</i>	(Optional) PLB analytics node pkts count
<i>plbshowinfo-stats-node-pkts-percentage</i>	(Optional) PLB analytics node pkts percentage
<i>plbshowinfo-stats-acl-pkts</i>	(Optional) PLB analytics acl pkts
<i>plbshowinfo-for-ace</i>	(Optional) PLB analytics for ACE
<i>plb-show-end</i>	(Optional) Show plb end marker
<i>plb-true-end</i>	(Optional) show plb true end marker

**Command Mode**

- /exec

# show plb vrf

```
show plb vrf [ <vrf-name> ] [ __readonly__ <plbshowinfo-vrf-hdr> { TABLE_svc
<plbshowinfo-vrf-service_name> <plbshowinfo-vrf-name> <plbshowinfo-vrf-id> } <plb-show-end> [
<plb-true-end> ] ]
```

## Syntax Description

show	Show running system information
plb	PLB service
vrf	PLB service vrf
<i>vrf-name</i>	(Optional) VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>plbshowinfo-vrf-hdr</i>	(Optional) PLB info vrf header
TABLE_svc	(Optional) PLB Service VRF details
<i>plbshowinfo-vrf-service_name</i>	(Optional) PLB service name
<i>plbshowinfo-vrf-name</i>	(Optional) PLB vrf name
<i>plbshowinfo-vrf-id</i>	(Optional) PLB vrf id
<i>plb-show-end</i>	(Optional) Show plb end marker
<i>plb-true-end</i>	(Optional) show plb true end marker

## Command Mode

- /exec

## show pmap-int-br interface br

```
show pmap-int-br interface br [ __readonly__ { [ TABLE_ifvlanstr <if-vlan-str> <if-status> [ <in-pmap-qos>
] [ <out-pmap-qos> ] [ <in-pmap-que> ] [ <out-pmap-que> ] ] } ]
```

### Syntax Description

show	Show running system information
pmap-int-br	Show policy maps
interface	Show service policy on interface
br	Brief report of all policies attached to interfaces
TABLE_ifvlanstr	(Optional) all interfaces xml sessions
<i>if-vlan-str</i>	(Optional) ifindex or vlan id: xml key
<i>__readonly__</i>	(Optional)
<i>if-status</i>	(Optional) Interface/vlan status [active/inactive]: xml key
<i>in-pmap-qos</i>	(Optional) Input QoS Policy-map name: xml key
<i>out-pmap-qos</i>	(Optional) output QoS Policy-map name: xml key
<i>in-pmap-que</i>	(Optional) Input Que Policy-map name: xml key
<i>out-pmap-que</i>	(Optional) Output Que Policy-map name: xml key

### Command Mode

- /exec



# show pmap-int

```
show pmap-int { interface [ <i>iface-list</i> ] [ input | output ] [ type <qos-or-q> ] [ detail ] |
```

## Syntax Description

show	Show running system information
pmap-int	Show policy maps
interface	Show service policy on interface
<i>iface-list</i>	(Optional) List of Interface
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Type of policy
<i>qos-or-q</i>	(Optional)
detail	(Optional) Detailed QoS or Queuing statistics

## Command Mode

- /exec

# show pnp lease

show pnp lease

## Syntax Description

show	Show running system information
pnp	Plug and Play
lease	Show PnP lease information

## Command Mode

- /exec

# show pnp posix\_pi configs

show pnp posix\_pi configs

## Syntax Description

show	Show running system information
pnp	Plug and Play
posix_pi	Posix PnP PI agent
configs	Posix PnP PI configuration

## Command Mode

- /exec

# show pnp posix\_pi tech-support

show pnp posix\_pi tech-support

## Syntax Description

show	Show running system information
pnp	Plug and Play
posix_pi	Posix PnP PI agent
tech-support	Technical Support

## Command Mode

- /exec

# show pnp profiles

show pnp profiles

## Syntax Description

show	Show running system information
pnp	Plug and Play
profiles	Show POSIX PnP Profile

## Command Mode

- /exec

# show pnp status

show pnp status

## Syntax Description

show	Show running system information
pnp	Plug and Play
status	Show POSIX PnP Status

## Command Mode

- /exec

# show pnp summary

show pnp summary

## Syntax Description

show	Show running system information
pnp	Plug and Play
summary	Show POSIX PnP Summary

## Command Mode

- /exec

# show pnp version

show pnp version

## Syntax Description

show	Show running system information
pnp	Plug and Play
version	Show POSIX PnP Version

## Command Mode

- /exec



## show policy-map

```
show policy-map [ { [ type qos ] [ <pmap-name-qos> ] } | { type queuing [ <pmap-name-que> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_pmap [ <pmap-key> ] [ <type-spec> ] [ <yqos-or-q> ] [ <options>
] [ <pmap-name-out> ] [ <nq-xpmap-name> ] [ <desc> ] [ <nq-desc> ] [ TABLE_cmap [ <cmap-key> ] [
<type-cmap-spec> ] [ <xqos-or-q> ] [ <cmap-name> ] [ <nq-xcmap-name> ] [ TABLE_action [ <action-key>
] [ <nq-action-key> ] [ <serv-pol-type> ] [ <serv-pol-name> ] [ <cos-list> ] [ <qos-group-list> ] [ <protocol>
] [ <nq-pause> ] [ <timeout> ] [ <nq-size-in-bytes> ] [ <nq-xoff-bytes> ] [ <nq-xon-bytes> ] [ <pfc-cos-list> ] [
<pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [
<mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] [ <inner> ] [ <dlb-disable> ] [ <cos>
] [ <exp-val-imposition> ] [ <exp-val-topmost> ] [ <dscp-enum> ] [ <dscp> ] [ <prec-enum> ] [ <prec> ] [
<disc-class> ] [ <qos-group> ] [ <tmap-from> ] [ <tmap-to> ] [ <tmap-name> ] [ <avg-rate-type> ] [ <rate-units>
] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type> ] [
<max-rate-units> ] [ <shape-max-rate> ] [ <rise-threshold-units> ] [ <fall-threshold-units> ] [ <prio-level> ]
] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <ooo> ] [ <size-units> ] [ <qlim-size> ] [ <qlim-enum-spec>
] [ <rdet-agg> ] [ <rdet-mode> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ <rdet-ecn> ] [ TABLE_rdet
<rdet-key> ] [ <rdet-values> ] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob>
] [ <rdet-weight> ] [ <rdet-cap-average> ] [ <rdet-nonecn-mode> ] [ TABLE_rdet_nonecn <rdet-nonecn-key>
] [ <rdet-nonecn-min-thresh> ] [ <rdet-nonecn-size-units> ] [ <rdet-nonecn-max-thresh> ] [
<rdet-nonecn-drop-prob> ] [ <afd-mode> ] [ TABLE_afd <afd-key> ] [ <afd-values> ] [ <afd-queue-desired>
] [ <afd-size-units> ] [ <afd-ecn> ] ] [ <pause> ] [ <size-in-bytes> ] [ <xoff-bytes> ] [ <xon-bytes> ] [
<priority-group-number> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [ <rem-bw-rate> ] [
<agg-policer-name> ] [ <cir-spec> ] [ <bc-spec> ] [ <be-spec> ] [ <cir-rate-units> ] [ <cir> ] [ <bc-size-units>
] [ <bc> ] [ <pir-rate-units> ] [ <pir> ] [ <be-size-units> ] [ <be> ] [ <cnf-col-cmap> ] [ <exc-col-cmap> ] [
TABLE_police <police-key> ] [ <cnf-act> ] [ <exc-act> ] [ <vio-act> ] [ <set-type> ] [ <enum-spec> ] [ <set-val>
] [ <ptmap-from> ] [ <ptmap-to> ] [ <ptmap-name> ] ] [ <burst-detect-enable> ] ] ] ] }
```

### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
qos	(Optional) type qos
queuing	(Optional) type queuing
<i>pmap-name-qos</i>	(Optional) policy map name (type qos)
<i>pmap-name-que</i>	(Optional) policy map name (type queuing)
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_rdet	(Optional) all WRED sessions

TABLE_rdet_nonecn	(Optional) all WRED non ECN sessions
TABLE_afd	(Optional) all AFD sessions
TABLE_police	(Optional) all police actions
<i>police-key</i>	(Optional) police actions count: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
<i>nq-action-key</i>	(Optional) Actions xcount: xml key
<i>yqos-or-q</i>	(Optional)
<i>options</i>	(Optional) match-first option
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>nq-desc</i>	(Optional) Description xstring
<i>cmap-name</i>	(Optional) Class-map name
<i>nq-xpmap-name</i>	(Optional) Policy-map xname
<i>nq-xcmap-name</i>	(Optional) Class-map xname
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>protocol</i>	(Optional) protocol
<i>timeout</i>	(Optional) timeout value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>cc</i>	(Optional) congestion control protocol
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class

<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>queue-limit</i>	(Optional) Queue size for the class
<i>pfc_rx_only</i>	(Optional) Pause receive only mode is enabled
<i>xqos-or-q</i>	(Optional)
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>type-spec</i>	(Optional) Type of policy-map specified or not
<i>type-cmap-spec</i>	(Optional) Type of class-map specified or not
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>dlb-disable</i>	(Optional) Disable Dynamic Load Balancing
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>exp-val-imposition</i>	(Optional) MPLS EXP value of type imposition
<i>exp-val-topmost</i>	(Optional) MPLS EXP value of type topmost
<i>dscp</i>	(Optional) DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	(Optional)
<i>prec</i>	(Optional) Precedence in IP(v4) and IPv6 packets
<i>prec-enum</i>	(Optional)
<i>disc-class</i>	(Optional) Discard class
<i>qos-group</i>	(Optional) Qos-group
<i>tmap-from</i>	(Optional)
<i>tmap-to</i>	(Optional)
<i>tmap-name</i>	(Optional) Table map name
<i>ptmap-from</i>	(Optional)
<i>ptmap-to</i>	(Optional)
<i>ptmap-name</i>	(Optional) Table map name
<i>avg-rate-type</i>	(Optional) Specifies if average shape rate is specified
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us

<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>cir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>pir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-nonecn-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>afd-size-units</i>	(Optional) Units of queue size - bytes/kbytes/mbytes
<i>bc-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>be-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-mode</i>	(Optional) Random-detect mode
<i>rdet-nonecn-mode</i>	(Optional) Random-detect non-ecn mode
<i>rdet-agg</i>	(Optional) Are the params for aggregate flow
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight
<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>rdet-nonecn-drop-prob</i>	(Optional) Random-detect non-ecn drop probability
<i>afd-mode</i>	(Optional) AFD mode
<i>afd-values</i>	(Optional) List of class-of-service values for AFD
<i>afd-ecn</i>	(Optional) AFD ECN

<i>pause</i>	(Optional) Pause value
<i>nq-pause</i>	(Optional) NQ Pause value
<i>priority-group-number</i>	(Optional) Priority group value
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>agg-policer-name</i>	(Optional) Aggregate policer name
<i>cir-spec</i>	(Optional) Is CIR keyword specified
<i>bc-spec</i>	(Optional) Is Committed Burst keyword specified
<i>be-spec</i>	(Optional) Is Extended Burst keyword specified
<i>cnf-col-cmap</i>	(Optional) Conforming color class-map name
<i>exc-col-cmap</i>	(Optional) Exceeding color class-map name
<i>enum-spec</i>	(Optional) Is DSCP or PREC enum value specified
<i>cnf-act</i>	(Optional) Conform action (Police)
<i>exc-act</i>	(Optional) Exceed action (Police)
<i>vio-act</i>	(Optional) Violate action (Police)
<i>set-type</i>	(Optional) Type of set in police action
<i>set-val</i>	(Optional) Value of set type in police action
<i>ooo</i>	(Optional) Out-of-Order
<i>burst-detect-enable</i>	(Optional) Burst detect feature is enabled

### Command Mode

- /exec

## show policy-map interface control-plane

```
show policy-map interface control-plane { [ module <slot-no-in> [ class <cmmap-name> ] ] [ class <cmmap-name>
[ module <slot-no-in> ] ] } [ __readonly__ [ <scale-factor-cmd> ] <pmap-name> [ TABLE_cmap <cmmap-key>
<cmmap-name-out> <opt_any_or_all> [ TABLE_match <match-key> { [ access_grp <acc_grp_name> ] [
redirect <opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] } + ] [
<class-off-rate> <class-drop-rate> <class-pkts> <class-bytes> ] [ [ <set_vld_flg> ] { { cos [ inner ] <cos-val>
} | { dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ { percent <cir-perc> } ] [ <bc>
<opt_kbytes_mbytes_gbytes_bc> ] [ <pir> <opt_kbps_mbps_gbps_pps_pir> ] [ { percent1 <pir-perc> } ] [
<be> <opt_kbytes_mbytes_gbytes_be> ] ] [ TABLE_slot { <slot-no-out> { [ [ <conform-pkts> ] [ [
<conform-bytes> ] ] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit
<set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ { [ [ <exceed-pkts> ] <exceed-bytes> ] { {
<opt_drop_transmit_exceed> } | { set dscp1 dscp2 table cir-markdown-map } } } ] [ [ <violate-pkts> |
<violate-bytes> ] { { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4 table1 pir-markdown-map } } } }
} ] ] ]
```

### Syntax Description

show	Show running system information
policy-map	Show policy maps
interface	Show service policy on interface
control-plane	command is for copp policy
module	(Optional) module number for statistics
class	(Optional) class-name name
<i>cmmap-name</i>	(Optional) Name of the class-map
<i>pmap-name</i>	(Optional) Name of the Policy-map
<i>__readonly__</i>	(Optional)
<i>scale-factor-cmd</i>	(Optional) Scale factor command
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmmap-key</i>	(Optional) Class-map key : XML output
<i>cmmap-name-out</i>	(Optional) Name of the output class-map
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) Match key : XML output
access_grp	(Optional)
<i>acc_grp_name</i>	(Optional)

redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
<i>set_vld_flg</i>	(Optional) Set valid flag
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
TABLE_slot	(Optional) all slot-num : XML output
<i>slot-no-in</i>	(Optional) input slot no
<i>slot-no-out</i>	(Optional) output slot no
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional)

<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)
dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)

**Command Mode**

- /exec



## show policy-map system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ TABLE_xpmap <xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [
TABLE_xaction <xaction-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout>
<size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [
<min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold>
] [ <queue-limit> ] [ <stat-en-dis-enum> ] ] ] ] [ TABLE_pmap <pmap-key> <pmap-inner-outer> <in-or-out>
<yqos-or-q> [ <options> ] <pmap-name> [ <stat-status-enum> ] [ TABLE_cmap <cmap-key> [ <xqos-or-q>
] <match-opts> <cmap-name> [ <slot-num> ] [ <class-pkts> ] [ <agg-forward> ] [ TABLE_match <match-key>
[ <not> ] [ <inner> ] [ <cos-list> ] [ <dscp-list> ] [ <exp-value-top> ] [ <protocol-name> ] [
<match-cmap-xqos-or-q> ] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE_action <action-key>
[ <set-inner> ] [ <cos> ] [ <qos-group> ] [ <serv-pol-type> ] [ <serv-pol-name> ] [ <serv-pol-return-inout> ]
[ <rate-units> ] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type>
] [ <max-rate-units> ] [ <shape-max-rate> ] [ <prio-level> ] [ <qlim-param-type> ] [ <qlim-param-val> ] [
<size-units> ] [ <qlim-size> ] [ <qlim-enum-spec> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [
<rem-bw-rate> ] [ <rise-threshold-units> ] [ <fall-threshold-units> ] [ <rdet-agg> ] [ <rdet-mode> ] [
<rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ TABLE_rdet <rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [
<rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [ <rdet-cap-average> ] ] [
<rdet-ecn> ] [ TABLE_afd <afd-key> [ <afd-values> ] [ <afd-queue-desired> ] [ <afd-size-units> ] [ <afd-ecn>
] ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] ] ] ] }
```

### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
system	Active policy in the system
network-qos	(Optional) type network-qos
qos	(Optional) type qos
input2	(Optional) input policy
queuing	(Optional) type queuing
input	(Optional) input policy
output	(Optional) output policy
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
TABLE_xpmap	(Optional) all xpmap xml sessions
<i>xpmap-name</i>	(Optional) Policy-map name
TABLE_xcmap	(Optional) all xcmap xml sessions

<i>xcmap-name</i>	(Optional) Class-map name
TABLE_xaction	(Optional) all network-qos actions
<i>xaction-key</i>	(Optional) network-qos actions count: xml key
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
TABLE_rdet	(Optional) all WRED sessions
TABLE_afd	(Optional) all AFD sessions
<i>stat-en-dis-enum</i>	(Optional)
<i>in-or-out</i>	(Optional)
<i>yqos-or-q</i>	(Optional)
<i>stat-status-enum</i>	(Optional)
<i>desc</i>	(Optional) Description string
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>pause</i>	(Optional) Pause value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>pfc_rx_only</i>	(Optional) Pause receive only mode enabled
<i>timeout</i>	(Optional) timeout value
<i>cc</i>	(Optional) congestion control protocol
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class

<i>queue-limit</i>	(Optional) Queue size for the class
<i>protocol-name</i>	(Optional) protocol name
<i>protocol</i>	(Optional) protocol
<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>cos-list</i>	(Optional) List of class-of-service values
<i>dscp-list</i>	(Optional) List of DSCP values
<i>exp-value-top</i>	(Optional) List of MPLS exp values
<i>qos-group</i>	(Optional) QoS Group Value
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>options</i>	(Optional) match-first option
<i>pmap-name</i>	(Optional) Policy-map name
<i>pmap-inner-outer</i>	(Optional) Inner or Outer policy-map
<i>serv-pol-return-inout</i>	(Optional) Inner or Outer policy-map
<i>cmap-name</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)
<i>match-opts</i>	(Optional) Type of match in class-map
<i>match-cmap-xqos-or-q</i>	(Optional)
<i>match-cmap-opts</i>	(Optional) Type of match in class-map
<i>not</i>	(Optional) Negate this match result
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos-list</i>	(Optional) List of class-of-service values
<i>match-cmap-name</i>	(Optional) class-map name
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>set-inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us

<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>afd-size-units</i>	(Optional) Units of queue size - bytes/kbytes/mbytes
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-agg</i>	(Optional) Are the params for aggregate flow
<i>rdet-mode</i>	(Optional) Random-detect mode
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight
<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>afd-values</i>	(Optional) List of class-of-service values for afd
<i>afd-ecn</i>	(Optional) AFD ECN
<i>pause</i>	(Optional) Pause value
<i>slot-num</i>	(Optional) the slot number
<i>agg-forward</i>	(Optional) prints out aggregate forward

**Command Mode**

- /exec

## show policy-map type control-plane

```
show policy-map type control-plane [ expand ] [ { name <pmap-name> } ] [ __readonly__ [ { TABLE_pmap
<pmap-name1> [ { TABLE_cmap <cmap-name> [ <opt_any_or_all> ] [ TABLE_match [ <match_key> ] {
[ access_grp <acc_grp_name> + ] [ redirect <opt_match_redirect> ] [ exception <opt_match_except> + ] [
protocol <opt_match_protocol> ] } ] [ { TABLE_set_action <set_vld_flg> { { cos [ inner ] <cos-val> } | {
dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ percent <cir-perc> ] [ <pir>
<opt_kbps_mbps_gbps_pps_pir> ] [ percent1 <pir-perc> ] [ <bc> <opt_kbytes_mbytes_gbytes_bc> ] [ <be>
<opt_kbytes_mbytes_gbytes_be> ] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> }
| { set-dscp-transmit <set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ { <opt_drop_transmit_exceed>
} ] [ { set dscp1 dscp2 table cir-markdown-map } ] [ { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4
table1 pir-markdown-map } ] ] ] ] ] ]
```

### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
control-plane	command is for copp policy
expand	(Optional) Display the match-criterias along with class-map
name	(Optional) policy-map name
<i>pmap-name</i>	(Optional) Name of the Policy-map
<i>__readonly__</i>	(Optional)
TABLE_pmap	(Optional) Table of policy-map
<i>pmap-name1</i>	(Optional) Name of the Policy-map
TABLE_cmap	(Optional) Table of class-map
<i>cmap-name</i>	(Optional) Name of the class-map
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
TABLE_match	(Optional) Table of match statement
<i>match_key</i>	(Optional) Match key : XML output
access_grp	(Optional)
<i>acc_grp_name</i>	(Optional)
redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets

exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
TABLE_set_action	(Optional) Table of set action
<i>set_vld_flg</i>	(Optional) Set valid flag
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)

dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags

#### Command Mode

- /exec

## show policy-map type network-qos

```
show policy-map type network-qos [ <pmap-name-nq> ] [ __readonly__ { [ <display-all> ] [ TABLE_xpmap
<xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [ TABLE_action <action-key> [ <cos-list> ] [
<qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [
<pfc-cos-list> ] [ <pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob>
] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] ] ] ] }
```

### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
<i>pmap-name-nq</i>	(Optional) Policy-map name
network-qos	type network-qos
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
TABLE_xpmap	(Optional) all xpmap xml sessions
<i>xpmap-name</i>	(Optional) Policy-map name
TABLE_xcmap	(Optional) all xcmap xml sessions
<i>xcmap-name</i>	(Optional) Class-map name
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
<i>desc</i>	(Optional) Description string
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>protocol</i>	(Optional) protocol
<i>pause</i>	(Optional) Pause value
<i>timeout</i>	(Optional) timeout value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>cc</i>	(Optional) congestion control protocol
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value



<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class
<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>queue-limit</i>	(Optional) Queue size for the class
<i>pfc_rx_only</i>	(Optional) Pause receive only mode is enabled

**Command Mode**

- /exec

# show port-channel capacity

show port-channel capacity [ *\_\_readonly\_\_* <total> <used> <free> <percentage\_used> ]

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
capacity	Capacity information
<i>__readonly__</i>	(Optional)
<i>total</i>	(Optional) Total resource
<i>used</i>	(Optional) Used resource
<i>free</i>	(Optional) Free resource
<i>percentage_used</i>	(Optional) Used resource in percentage

## Command Mode

- /exec

# show port-channel compatibility-parameters

```
show port-channel compatibility-parameters [ __readonly__ { TABLE_compatibility <parameter> <description> } + ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
compatibility-parameters	Show compatibility parameters
__readonly__	(Optional)
TABLE_compatibility	(Optional) Port-channel compatibility table
<i>parameter</i>	(Optional) Compatibility parameter
<i>description</i>	(Optional) Parameter description

## Command Mode

- /exec

## show port-channel database

```
show port-channel database [ interface <if0> ] [ __readonly__ TABLE_interface <interface>
<last-membership-update> <total-ports> <total-up-ports> [ <first_operational-port> ] <age-of-channel> [
<time-since-last-bundle> ] [ <last-bundled-member> ] [ <time-since-last-unbundle> ] [
<last-unbundled-member> ] [ { TABLE_member <port> <mode> <port-status> } ] [ <protocol> ] ]
```

### Syntax Description

show	Show running system information
port-channel	Show port-channel information
database	Show port-channel database
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port-channel table
<i>interface</i>	(Optional) Port channel
<i>mode</i>	(Optional) channel-group mode
<i>last-membership-update</i>	(Optional) Last membership update
<i>total-ports</i>	(Optional) Total number of member ports
<i>total-up-ports</i>	(Optional) Total number of UP member ports
<i>first_operational-port</i>	(Optional) First operational port
TABLE_member	(Optional) Member ports info
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status
<i>age-of-channel</i>	(Optional) Age of port channel
<i>time-since-last-bundle</i>	(Optional) Time since last port bundled
<i>last-bundled-member</i>	(Optional) Last bundled member port
<i>time-since-last-unbundle</i>	(Optional) Time since last port un-bundled
<i>last-unbundled-member</i>	(Optional) Last unbundled member port
<i>protocol</i>	(Optional) Port channel protocol

### Command Mode

- /exec

# show port-channel fast-convergence

show port-channel fast-convergence [ \_\_readonly\_\_ { port-channel fast-convergence <fastconvergence> } ]

## Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
fast-convergence	Show port-channel fast-convergence status
__readonly__	(Optional)
<i>fastconvergence</i>	(Optional) port channel fast convergence enable/disable

## Command Mode

- /exec

# show port-channel load-balance

```
show port-channel load-balance [ [ module <module> ] | { fex { all } } ] [ __readonly__ [ <sys-cfg> ] +
<sys-cfg-sel> [ { <module-cfg> } ] + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> [ <ipv6-val> ] [
<ipv4-encap> ] { TABLE_mod_configs [ <mod-number> ] <mod-non-ip-val> <mod-non-ip-sel>
<mod-ipv4-val> <mod-ipv4-sel> [ <mod-ipv4-encap> ] } ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
load-balance	Show port-channel load balance
module	(Optional) slot
<i>module</i>	(Optional) Specify a module number
fex	FEX devices
all	Display all configured FEX port-channel LB
<u>__readonly__</u>	(Optional)
<i>sys-cfg</i>	(Optional) system wide load balance configuraton
<i>sys-cfg-sel</i>	(Optional) system config
<i>module-cfg</i>	(Optional) per module load balance configuraton
<i>non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>non-ip-sel</i>	(Optional) non ip select
<i>ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>ipv4-sel</i>	(Optional) ip select
<i>ipv6-val</i>	(Optional) load balance setting for ipv6 traffic
<i>ipv4-encap</i>	(Optional) encapsulation
TABLE_mod_configs	(Optional) module configurations
<i>mod-number</i>	(Optional) module number
<i>mod-non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>mod-non-ip-sel</i>	(Optional) non ip select
<i>mod-ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>mod-ipv4-sel</i>	(Optional) ip select

<i>mod-ipv4-encap</i>	(Optional) encapsulation
-----------------------	--------------------------

**Command Mode**

- /exec



# show port-channel load-balance forwarding-path1 interface src-interface

```
show port-channel load-balance forwarding-path1 interface <ch-id> src-interface <src-if> { vlan <vlan-id> |
src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6
<dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ether-type <ethertype> | ip-prot <prot> }
+ [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

## Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
forwarding-path1	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
vlan	VLAN - for dot1Q tagged packets at ingress
<i>vlan-id</i>	VLAN ID
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IP address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source Port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination Port
<i>l4-dst-port</i>	Destination L4 port

ether-type	Ethernet Type
<i>ethertype</i>	Ethernet Type
src-interface	Optional source interface (physical switch port only)
<i>src-if</i>	Interface name
ip-proto	IP v4/v6 Protocol
<i>prot</i>	IP Protocol
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) port

**Command Mode**

- /exec

# show port-channel load-balance hardware forwarding-path interface source

```
show port-channel load-balance hardware forwarding-path { interface <ch-id> | hgig } { source-interface <if-id> } { vlan <vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype> | protocol <prot> } + [ module <module> | fex <fex-range> | hgig-tgid <tgid> ] [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

## Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
hardware	ASIC hardware based information
forwarding-path	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
hgig	Higig hashing result (only with RTAG7)
source-interface	Source interface - Required paramter
<i>if-id</i>	Interface name
vlan	VLAN of the ingress packet i.e. when available
<i>vlan-id</i>	
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address

l4-src-port	Source L4 port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination l4 port
<i>l4-dst-port</i>	Destination L4 port
ethertype	Ethertype of the packet stream
<i>ethertype</i>	
protocol	Protocol
<i>prot</i>	
module	(Optional) Module #
<i>module</i>	(Optional)
fex	(Optional) FEX devices
<i>fex-range</i>	(Optional) FEX device range
hgig-tgid	(Optional) Hgig #
<i>tgid</i>	(Optional)
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) load balance algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) outgoing port-id

**Command Mode**

- /exec

## show port-channel rbh-distribution

```
show port-channel rbh-distribution [ interface <if0> ] [ __readonly__ TABLE_channel <chan-id> <port> {
<rbh> } + <num_of_buckets> ]
```

### Syntax Description

show	Show running system information
port-channel	Show port-channel information
rbh-distribution	Show RBH distribution for member ports
interface	(Optional) Specify a port-channel interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chan-id</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>num_of_buckets</i>	(Optional) Channel ID
<i>rbh</i>	(Optional) Channel ID

### Command Mode

- /exec

## show port-channel scale-fanout

show port-channel scale-fanout [ \_\_readonly\_\_ { port-channel high-density <scalefanout> } ]

### Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
scale-fanout	Enable/disable port-channel scale-fanout when ports span more than 16 ASIC units
__readonly__	(Optional)
high-density	(Optional) port channel high density
<i>scalefanout</i>	(Optional) port channel scale fanout enable/disable

### Command Mode

- /exec

# show port-channel summary

```
show port-channel summary [ interface <if0> | controller ] [ __readonly__ TABLE_channel <group>
<port-channel> <layer> <status> <type> <prtcl> [ { TABLE_member <port> <port-status> } ] ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
summary	Show port-channel summary
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
controller	(Optional) Show controller configured port-channels
<i>__readonly__</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>group</i>	(Optional) Channel group number
<i>port-channel</i>	(Optional) Port channel
<i>type</i>	(Optional) Channel type
<i>prtcl</i>	(Optional) Channel protocol
<i>status</i>	(Optional) Channel status
<i>layer</i>	(Optional) Channel layer info
TABLE_member	(Optional) Member table
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status

## Command Mode

- /exec

# show port-channel traffic

```
show port-channel traffic [ interface <if0> ] [ __readonly__ TABLE_channel <chanId> <port> <rx-ucst>
<tx-ucst> <rx-mcst> <tx-mcst> <rx-bcst> <tx-bcst> ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
traffic	Show port-channel traffic statistics
__readonly__	(Optional)
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chanId</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>rx-ucst</i>	(Optional) Received unicast
<i>tx-ucst</i>	(Optional) Transmitted unicast
<i>rx-mcst</i>	(Optional) Received multicast
<i>tx-mcst</i>	(Optional) Transmitted multicast
<i>rx-bcst</i>	(Optional) Received broadcast
<i>tx-bcst</i>	(Optional) Transmitted broadcast

## Command Mode

- /exec



# show port-channel usage

```
show port-channel usage [ __readonly__ <total-channel-number-used> { <used-range-low> [ <used-range-hi> ] } + { <unused-range-low> [ <unused-range-hi> ] } + ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
usage	Show port-channel number usage
<i>__readonly__</i>	(Optional)
<i>total-channel-number-used</i>	(Optional) Total used number of port-channels
<i>used-range-low</i>	(Optional) Used range low end value
<i>used-range-hi</i>	(Optional) Used range high end value
<i>unused-range-low</i>	(Optional) Un-used range low end value
<i>unused-range-hi</i>	(Optional) Un-used range high end value

## Command Mode

- /exec

# show port-license

```
show port-license [ __readonly__ <consumed_port_licenses> [ TABLE_portlicense <interface> <cookie>
<port_activation_license> ] ]
```

## Syntax Description

show	Show running system information
port-license	Show port license information
<i>__readonly__</i>	(Optional)
<i>consumed_port_licenses</i>	(Optional) Consumed port licenses
TABLE_portlicense	(Optional) port and licenses
<i>interface</i>	(Optional) interface name
<i>cookie</i>	(Optional) cookie
<i>port_activation_license</i>	(Optional) license state

## Command Mode

- /exec

# show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile_all <profile_name> [
<profile_id> ] <type> [ <desc> ] [ <status> ] [ <max_ports> ] [ <min_ports> ] [ <inherit> ] [ <profile_cfg> ]
+ [ <cmd_depth> ] [ <cmd_key> ] [ <parent_seqno> ] [ <cmd_seqno> ] [ <cmd_attr> ] [ <form_type> ] [
<cmd_mask> ] [ <shadow_cmd> ] [ <cmd_flags> ] [ <eval_cfg> ] + [ <intf> ] + [ <cap_l3> ] [ <cap_iscsi>
] [ <ctrl_sgid> ] [ <pkt_sgid> ] [ <sys_vlans> ] [ <portgrp> ] [ <pprole> ] [ <port_binding> ] ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile_all	(Optional)
<i>profile_name</i>	(Optional)
<i>profile_id</i>	(Optional)
<i>type</i>	(Optional)
<i>desc</i>	(Optional)
<i>status</i>	(Optional)
<i>max_ports</i>	(Optional)
<i>min_ports</i>	(Optional)
<i>inherit</i>	(Optional)
<i>profile_cfg</i>	(Optional)
<i>cmd_depth</i>	(Optional)
<i>cmd_key</i>	(Optional)
<i>parent_seqno</i>	(Optional)
<i>cmd_seqno</i>	(Optional)
<i>cmd_attr</i>	(Optional)
<i>form_type</i>	(Optional)
<i>cmd_mask</i>	(Optional)
<i>shadow_cmd</i>	(Optional)

<i>cmd_flags</i>	(Optional)
<i>eval_cfg</i>	(Optional)
<i>intf</i>	(Optional)
<i>cap_l3</i>	(Optional) L3 Profile
<i>cap_iscsi</i>	(Optional) iSCSI cap
<i>ctrl_sgid</i>	(Optional) Control Vlan Pinned Sgid
<i>pkt_sgid</i>	(Optional) Packet Vlan Pinned Sgid
<i>sys_vlans</i>	(Optional) System Vlans
<i>portgrp</i>	(Optional) VMware Portgroup
<i>pprole</i>	(Optional) Port-profile Role
<i>port_binding</i>	(Optional) Port-binding

**Command Mode**

- /exec

# show port-profile brief

```
show port-profile brief [ __readonly__ { TABLE_port_profile [ <profile_name> ] [ <type> ] [ <status> ] [
<profile_cfg_cnt> ] [ <eval_cfg_cnt> ] [ <intf_cnt> ] [ <inherit_cnt> ] [ <header_flag> ] } { TABLE_intf_count
[ <intf_type> ] [ <intf_count> ] [ <tot_header_flag> ] } ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
brief	Brief info about profiles
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
TABLE_port_profile	(Optional)
<i>type</i>	(Optional)
<i>status</i>	(Optional)
<i>profile_cfg_cnt</i>	(Optional)
<i>eval_cfg_cnt</i>	(Optional)
<i>intf_cnt</i>	(Optional)
<i>inherit_cnt</i>	(Optional)
<i>header_flag</i>	(Optional)
TABLE_intf_count	(Optional)
<i>intf_type</i>	(Optional)
<i>intf_count</i>	(Optional)
<i>tot_header_flag</i>	(Optional)

## Command Mode

- /exec

# show port-profile expand-interface

```
show port-profile expand-interface [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile
<profile_name> [ TABLE_interface <intf> [ <intf_cfg> ] + ] ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
expand-interface	Active profile config applied in a interface
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile	(Optional)
<i>profile_name</i>	(Optional)
TABLE_interface	(Optional)
<i>intf</i>	(Optional)
<i>intf_cfg</i>	(Optional)

## Command Mode

- /exec

# show port-profile sync-status

```
show port-profile sync-status [ interface <intfname> ] [ __readonly__ <intf> + [ <inherit> ] <status> + [
<sync_status> ] [ <cached_cmds> ] [ <errors> ] [ <recovery> ] ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
sync-status	Interfaces out-of-sync with port-profiles
interface	(Optional) Interface name
<i>intfname</i>	(Optional) Name of interface
<i>__readonly__</i>	(Optional)
<i>intf</i>	(Optional)
<i>status</i>	(Optional)
<i>inherit</i>	(Optional)
<i>sync_status</i>	(Optional)
<i>cached_cmds</i>	(Optional)
<i>errors</i>	(Optional)
<i>recovery</i>	(Optional)

## Command Mode

- /exec

# show port-profile usage

```
show port-profile usage [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile <profile_name>
[ TABLE_interface <interface> ] ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
usage	List of interfaces inherited a profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile	(Optional)
TABLE_interface	(Optional)
<i>profile_name</i>	(Optional)
<i>interface</i>	(Optional)

## Command Mode

- /exec



## show port-security

```
show port-security [ __readonly__ [ <total_addr> ] [ <max_sys_limit> ] [ { TABLE_eth_port_sec_interfaces
<secure_port> <port_state> <max_secure_addr> <security_violation> <security_action> <current_addr>
<num_val> <num_elems> <cmdid_show_index> } ] ]
```

### Syntax Description

<code>port-security</code>	Show secure port information
<code>__readonly__</code>	(Optional)
<code>total_addr</code>	(Optional) Total number of secured MAC addresses
<code>max_sys_limit</code>	(Optional) Maximum allowed MACs excluding one per port
<code>TABLE_eth_port_sec_interfaces</code>	(Optional) Displays the secured interfaces
<code>secure_port</code>	(Optional) Interface Index
<code>port_state</code>	(Optional) Port security enabled or disabled
<code>max_secure_addr</code>	(Optional) Maximum number of secured MAC addresses
<code>security_violation</code>	(Optional) Number of security violations
<code>security_action</code>	(Optional) Security Action Shutdown/Restrict/Protect
<code>current_addr</code>	(Optional) Number of secured MAC addresses
<code>num_val</code>	(Optional) Number of Values
<code>num_elems</code>	(Optional) Number of Elements
<code>cmdid_show_index</code>	(Optional) Index for the Interfaces

### Command Mode

- /exec

## show port-security address

```
show port-security address [ __readonly__ [ <total_addr> ] [ <max_sys_limit> ] [ {
TABLE_eth_port_sec_mac_addrs <if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt>
<remote_aged> <num_elems> <cmd_addr_index> } ] ]
```

### Syntax Description

port-security	Show secure port information
address	Show secure address
__readonly__	(Optional)
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>mac_addr</i>	(Optional) mac address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address

### Command Mode

- /exec

## show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addrs
<if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt> <remote_aged> <num_elems>
<cmd_addr_index> } [ <total_addr> ] [ <max_sys_limit> ] [ <first> ] ]
```

### Syntax Description

port-security	Show secure port information
address	Show secure address
interface	Show secure interface
<i>interface-id</i>	ethernet
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>mac_addr</i>	(Optional) mac address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
<i>first</i>	(Optional) To identify the first entry

### Command Mode

- /exec

## show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <port_status> <config_port_security>
<oper_port_security> <violation_mode> <aging_time> <aging_type> <max_mac_addr> <total_sec_addrs>
<conf_num_addrs> <num_sticky_addrs> <trap_count> ]
```

### Syntax Description

port-security	Show secure port information
interface	Show secure interface
<i>interface-id</i>	ethernet
<i>__readonly__</i>	(Optional)
<i>port_status</i>	(Optional) Secure Up/Down
<i>config_port_security</i>	(Optional) Port Security configuration is Enabled/Disabled
<i>oper_port_security</i>	(Optional) Port Security is Operationally Enabled/Disabled
<i>violation_mode</i>	(Optional) Shutdown/Restrict/Protect
<i>aging_time</i>	(Optional) Aging time in minutes
<i>aging_type</i>	(Optional) Absolute/Inactivity
<i>max_mac_addr</i>	(Optional) Configured Maximum
<i>total_sec_addrs</i>	(Optional) Total number of secured MAC addresses
<i>conf_num_addrs</i>	(Optional) Number of configured MAC addresses
<i>num_sticky_addrs</i>	(Optional) Number of sticky MAC addresses
<i>trap_count</i>	(Optional) Trap Count

### Command Mode

- /exec

# show port-security state

show port-security state [ \_\_readonly\_\_ <status> ]

## Syntax Description

port-security	Port security related command
state	port security state
__readonly__	(Optional)
<i>status</i>	(Optional) show port-security

## Command Mode

- /exec

# show port naming

show port naming

## Syntax Description

show	Show running system information
port	Show port information
naming	Show port naming information

## Command Mode

- /exec

# show postcard-telemetry exporter

```
show postcard-telemetry exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <seq_num> ]
```

## Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
exporter	Show POSTCARD Exporter Configuration
name	(Optional) Show a specific POSTCARD Exporter
<i>exportername</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>seq_num</i>	(Optional)

## Command Mode

- /exec

## show postcard-telemetry flow-profile

```
show postcard-telemetry flow-profile [ name ] [ <flow-profilename> ] [ __readonly__ <flow-profile>
<description> <age> <latency> ]
```

### Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
flow-profile	Show POSTCARD flow Profile Configuration
name	(Optional) Show a specific POSTCARD flow Profile
<i>flow-profilename</i>	(Optional) Specify an flow Profile
<i>__readonly__</i>	(Optional)
<i>flow-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>age</i>	(Optional)
<i>latency</i>	(Optional)

### Command Mode

- /exec



# show postcard-telemetry monitor

```
show postcard-telemetry monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor>
<use_count> <description> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist> ]
```

## Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
monitor	Show Monitor Configuration
name	(Optional) Show a specific POSTCARD Monitor
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>event</i>	(Optional)
<i>exporter</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>watchlist</i>	(Optional)

## Command Mode

- /exec

## show postcard-telemetry queue-profile

```
show postcard-telemetry queue-profile [ name ] [ <queue-profilename> ] [ __readonly__ <queue-profile>
<description> <depth> <latency> ]
```

### Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
queue-profile	Show POSTCARD Queue Profile Configuration
name	(Optional) Show a specific POSTCARD Queue Profile
<i>queue-profilename</i>	(Optional) Specify an Queue Profile
<i>__readonly__</i>	(Optional)
<i>queue-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>depth</i>	(Optional)
<i>latency</i>	(Optional)

### Command Mode

- /exec

# show postcard-telemetry sessions

show postcard-telemetry sessions [ <monitorname> ] [ \_\_readonly\_\_ <monitor> ]

## Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
sessions	Show Session Configuration
<i>monitorname</i>	(Optional) Specify a monitor
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)

## Command Mode

- /exec

## show postcard-telemetry watchlist

```
show postcard-telemetry watchlist [ name ] [ { <watchlistname> } ] [ __readonly__ <watchlist> <use_count>
<description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip>
<ace_dip_len> ]
```

### Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
watchlist	Show watchlist Configuration
name	(Optional) Show the configuration for a specific POSTCARD Record
<i>watchlistname</i>	(Optional) Specify a watchlist
<i>__readonly__</i>	(Optional)
<i>watchlist</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>num_aces</i>	(Optional)
<i>ace_seq_num</i>	(Optional)
<i>ace_action</i>	(Optional)
<i>ace_type</i>	(Optional)
<i>ace_sip</i>	(Optional)
<i>ace_sip_len</i>	(Optional)
<i>ace_dip</i>	(Optional)
<i>ace_dip_len</i>	(Optional)

### Command Mode

- /exec

# show power inline

```
show power inline [ __readonly__ { TABLE_fex_info <module_id> <avail_pwr> <used_pwr> <rem_pwr>
} { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr> <del_pwr> <device> <class> <max> } ]
```

## Syntax Description

show	Show running system information
power	Power over Ethernet
__readonly__	(Optional)
TABLE_fex_info	(Optional) FEX information
<i>module_id</i>	(Optional) FEX id
<i>avail_pwr</i>	(Optional) Available power
<i>used_pwr</i>	(Optional) Used power
<i>rem_pwr</i>	(Optional) Free power
TABLE_intf_info	(Optional) Interface information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>supp_pwr</i>	(Optional) Supplied power
<i>del_pwr</i>	(Optional) delivered power
<i>device</i>	(Optional) Device information
<i>class</i>	(Optional) POE Class
<i>max</i>	(Optional) Max power

## Command Mode

- /exec

# show power inline

```
show power inline <if0> [ __readonly__ { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr>
<del_pwr> <device> <class> <max> } ]
```

## Syntax Description

show	Show running system information
power	Power over Ethernet
<i>if0</i>	
<i>__readonly__</i>	(Optional)
TABLE_intf_info	(Optional) Interface information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>supp_pwr</i>	(Optional) Supplied power
<i>del_pwr</i>	(Optional) delivered power
<i>device</i>	(Optional) Device information
<i>class</i>	(Optional) POE Class
<i>max</i>	(Optional) Max power

## Command Mode

- /exec

# show power inline police

```
show power inline police [ __readonly__ { TABLE_police <intf_name> <admin> <oper> <admin_police>
<oper_police> <cutoff_pwr> <oper_pwr> } ]
```

## Syntax Description

show	Show running system information
power	Power over Ethernet
police	Show per-port policing
<i>__readonly__</i>	(Optional)
<i>TABLE_police</i>	(Optional) Police information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>admin_police</i>	(Optional) Configured admin police
<i>oper_police</i>	(Optional) Current police
<i>cutoff_pwr</i>	(Optional) Cutoff power
<i>oper_pwr</i>	(Optional) Oper power

## Command Mode

- /exec

# show power inline priority

show power inline priority [ *\_\_readonly\_\_* { *TABLE\_priority* <intf\_name> <admin> <oper> <priority> } ]

## Syntax Description

<i>show</i>	Show running system information
<i>power</i>	Power over Ethernet
<i>priority</i>	Show per-port priority
<i>__readonly__</i>	(Optional)
<i>TABLE_priority</i>	(Optional) Port priority information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>priority</i>	(Optional) port priority

## Command Mode

- /exec



# show privilege

show privilege [ *\_\_readonly\_\_* <user\_name> <cur\_priv\_level> <feature\_priv\_status> ]

## Syntax Description

show	Show running system information
privilege	Display privilege information
<i>__readonly__</i>	(Optional)
<i>user_name</i>	(Optional) Current user name
<i>cur_priv_level</i>	(Optional) Current privilege level
<i>feature_priv_status</i>	(Optional) Status of feature privilege

## Command Mode

- /exec

# show processes

```
show processes [ __readonly__ { [ TABLE_processes <pid> <state> <pc> <start_cnt> <tty> <p_type>
<process> ] } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
__readonly__	(Optional)
TABLE_processes	(Optional) all process information
<i>pid</i>	(Optional) process id
<i>state</i>	(Optional) process state
<i>pc</i>	(Optional) pc register
<i>start_cnt</i>	(Optional) TBD
<i>tty</i>	(Optional) TBD
<i>p_type</i>	(Optional) process type
<i>process</i>	(Optional) process name

## Command Mode

- /exec

## show processes cpu

```
show processes cpu [ sort ] [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked> <usecs>
<oneseq> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

### Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
sort	(Optional) Show processes CPU Info (Sorted by Cpu Util with time base)
__readonly__	(Optional)
TABLE_process_cpu	(Optional) all process memory
<i>pid</i>	(Optional) process id
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) usecs
<i>oneseq</i>	(Optional) fivesec
<i>process</i>	(Optional) name of the process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle

### Command Mode

- /exec

# show processes cpu history

show processes cpu history

## Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History

## Command Mode

- /exec

## show processes cpu history data

```
show processes cpu history data [ __readonly__ { [ TABLE_processes_cpu_history <cpu_avg_sec> ] } ]
```

### Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History
data	Display the CPU util as data, instead of graph
<i>__readonly__</i>	(Optional)
<i>TABLE_processes_cpu_history</i>	(Optional) 60 sec cpu history
<i>cpu_avg_sec</i>	(Optional) cpu avg for a sec

### Command Mode

- /exec

# show processes log

```
show processes log [ __readonly__ { [ TABLE_processes_log <vdc> <process> <pid> <normal_exit> <stack>
<core> <create_time> ] } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
<i>__readonly__</i>	(Optional)
TABLE_processes_log	(Optional) all processes log
<i>vdc</i>	(Optional) vdc
<i>process</i>	(Optional) vdc process name
<i>pid</i>	(Optional) pid
<i>normal_exit</i>	(Optional) process exit
<i>stack</i>	(Optional) stack
<i>core</i>	(Optional) core
<i>create_time</i>	(Optional) log create time

## Command Mode

- /exec

# show processes log details

show processes log details [ \_\_readonly\_\_ { line\_in\_log\_detail <line\_in\_file> } ]

## Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
details	Show detail of all logs with stack
__readonly__	(Optional)
line_in_log_detail	(Optional)
<i>line_in_file</i>	(Optional) each line

## Command Mode

- /exec

# show processes log pid

```
show processes log pid <i0> [ __readonly__ { TABLE_line_in_log_pid <line_in_file> } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i0</i>	pid of the process
<i>__readonly__</i>	(Optional)
<i>TABLE_line_in_log_pid</i>	(Optional)
<i>line_in_file</i>	(Optional) each line

## Command Mode

- /exec



## show processes log vdc-all

```
show processes log vdc-all [ __readonly__ { [ TABLE_processes_log_vdc_all <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

### Syntax Description

TABLE_processes_log_vdc_all	(Optional) all processes log vdc all
show	Show running system information
processes	Show processes
log	Show information about process logs
vdc-all	Show information about process logs in all vdc's
__readonly__	(Optional)
vdc	(Optional) vdc process name
process	(Optional) vdc process name
pid	(Optional) process id
normal_exit	(Optional) process exit
stack	(Optional) stack
core	(Optional) core
create_time	(Optional) log create time

### Command Mode

- /exec

# show processes memory

```
show processes memory [ __readonly__ { TABLE_process_memory <mem_pid> <mem_alloc> <mem_limit>
<mem_used> <stack_base_ptr> <process> } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

## Command Mode

- /exec

# show processes memory physical

```
show processes memory physical [ __readonly__ { TABLE_process_physical_memory <processid> <virtual>
<physical> <rss> <processname> } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
memory	Show processes Memory Info
physical	Show processes physical Memory
__readonly__	(Optional)
TABLE_process_physical_memory	(Optional) all process physical memory
<i>processid</i>	(Optional) process id
<i>virtual</i>	(Optional) virtual allocated memory
<i>physical</i>	(Optional) physical memory used
<i>rss</i>	(Optional) rss memory
<i>processname</i>	(Optional) name of the process

## Command Mode

- /exec

## show processes memory shared

```
show processes memory shared [ detail | dynamic ] [ __readonly__ TABLE_process_tag [ <process-tag-out>
] [ <process-memory-share-dynamic-component-str> ] [ <process-memory-share-dynamic-shared-memory-str>
] [ <process-memory-share-dynamic-current-size-str> ] [ <process-memory-share-dynamic-max-size-str> ]
] [ <process-memory-share-dynamic-used-str> ] [ <process-memory-share-component-str> ] [
<process-memory-share-shared-memory-str> ] [ <process-memory-share-size-str> ] [
<process-memory-share-used-str> ] [ <process-memory-share-available-str> ] [ <process-memory-share-ref-str>
] [ <process-memory-share-byte-set-address-str> ] [ <process-memory-share-byte-set-count-str> ] [
<process-memory-share-address-str> ] [ <process-memory-share-kbytes-1-str> ] [
<process-memory-share-kbytes-2-str> ] [ <process-memory-share-kbytes-3-str> ] [
<process-memory-share-count-str> ] [ { TABLE_SMMITEM <process-memory-share-smr-name> } ] [ {
TABLE_SHOWPROC <process-memory-share-table-showproc-key> [ { TABLE_SHOWONEDYNAMIC
[ <process-memory-share-component> ] [ <process-memory-share-shared-memory> ] [
<process-memory-share-current-size> ] [ <process-memory-share-max-size> ] [ <process-memory-share-used>
] ] ] [ { TABLE_ONEITEM [ <process-memory-share-proc-smr-name> ] [ <process-memory-share-smr-addr>
] [ <process-memory-share-smr-size> ] [ <process-memory-share-smr-star-char> ] [
<process-memory-share-smr-empty-char> ] [ <process-memory-share-smr-used> ] [
<process-memory-share-smr-avail> ] [ <process-memory-share-smr-ref-count> ] [
<process-memory-share-dynamic-smr-name> } ] ] [ { TABLE_ONEITEMDYNAMIC [
<process-memory-share-dynamic-smr-addr> ] [ <process-memory-share-dynamic-smr-size> ] [
<process-memory-share-dynamic-plus-char> ] [ <process-memory-share-max-mem-size-str> ] [
<process-memory-share-dynamic-smr-used> ] [ <process-memory-share-dynamic-smr-avail> ] [
<process-memory-share-dynamic-smr-ref-count> ] [ <process-memory-share-region-smr-name> } ] ] ] [
<process-memory-share-total-shm-size> ] [ <process-memory-share-total-shm-used> ] [
<process-memory-share-total-shm-avail> ] ] ]
```

### Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
shared	Display shared memory info
detail	(Optional) Display shared memory in bytes instead of default kbytes
dynamic	(Optional) Display details of dynamic shared memory segments
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>process-memory-share-dynamic-component-str</i>	(Optional)
<i>process-memory-share-dynamic-shared-memory-str</i>	(Optional)
<i>process-memory-share-dynamic-current-size-str</i>	(Optional)

<i>process-memory-share-dynamic-max-size-str</i>	(Optional)
<i>process-memory-share-dynamic-used-str</i>	(Optional)
<i>process-memory-share-component-str</i>	(Optional)
<i>process-memory-share-shared-memory-str</i>	(Optional)
<i>process-memory-share-size-str</i>	(Optional)
<i>process-memory-share-used-str</i>	(Optional)
<i>process-memory-share-available-str</i>	(Optional)
<i>process-memory-share-ref-str</i>	(Optional)
<i>process-memory-share-byte-set-address-str</i>	(Optional)
<i>process-memory-share-byte-set-count-str</i>	(Optional)
<i>process-memory-share-address-str</i>	(Optional)
<i>process-memory-share-kbytes-1-str</i>	(Optional)
<i>process-memory-share-kbytes-2-str</i>	(Optional)
<i>process-memory-share-kbytes-3-str</i>	(Optional)
<i>process-memory-share-count-str</i>	(Optional)
TABLE_SMMITEM	(Optional)
<i>process-memory-share-smr-name</i>	(Optional)
TABLE_SHOWPROC	(Optional)
<i>process-memory-share-table-showproc-key</i>	(Optional)
TABLE_SHOWONEDYNAMIC	(Optional)
<i>process-memory-share-component</i>	(Optional)
<i>process-memory-share-shared-memory</i>	(Optional)
<i>process-memory-share-current-size</i>	(Optional)
<i>process-memory-share-max-size</i>	(Optional)
<i>process-memory-share-used</i>	(Optional)
TABLE_ONEITEM	(Optional)
<i>process-memory-share-proc-smr-name</i>	(Optional)
<i>process-memory-share-smr-addr</i>	(Optional)
<i>process-memory-share-smr-size</i>	(Optional)

<i>process-memory-share-smr-star-char</i>	(Optional)
<i>process-memory-share-smr-empty-char</i>	(Optional)
<i>process-memory-share-smr-used</i>	(Optional)
<i>process-memory-share-smr-avail</i>	(Optional)
<i>process-memory-share-smr-ref-count</i>	(Optional)
TABLE_ONEITEMDYNAMIC	(Optional)
<i>process-memory-share-dynamic-smr-name</i>	(Optional)
<i>process-memory-share-dynamic-smr-addr</i>	(Optional)
<i>process-memory-share-dynamic-smr-size</i>	(Optional)
<i>process-memory-share-dynamic-plus-char</i>	(Optional)
<i>process-memory-share-max-mem-size-str</i>	(Optional)
<i>process-memory-share-dynamic-smr-used</i>	(Optional)
<i>process-memory-share-dynamic-smr-avail</i>	(Optional)
<i>process-memory-share-dynamic-smr-ref-count</i>	(Optional)
<i>process-memory-share-region-smr-name</i>	(Optional)
<i>process-memory-share-total-shm-size</i>	(Optional)
<i>process-memory-share-total-shm-used</i>	(Optional)
<i>process-memory-share-total-shm-avail</i>	(Optional)

**Command Mode**

- /exec

## show processes vdc

```
show processes vdc <e-vdc2> [ __readonly__ { TABLE_processes_vdc <pid> <state> <pc> <start_cnt> <tty>
<p_type> <process> } ]
```

### Syntax Description

<i>show</i>	Show running system information
<i>processes</i>	Show processes
<i>vdc</i>	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_processes_vdc</i>	(Optional) All process information
<i>pid</i>	(Optional) PID of process
<i>state</i>	(Optional) State of process
<i>pc</i>	(Optional) PC in which process exists
<i>start_cnt</i>	(Optional) TBD
<i>tty</i>	(Optional) TBD
<i>p_type</i>	(Optional) Type of Process
<i>process</i>	(Optional) Process Name

### Command Mode

- /exec

## show processes vdc cpu

```
show processes vdc <e-vdc2> cpu [ __readonly__ [ TABLE_process_vdc_cpu <pid> <runtime> <invoked>
<usecs> <onsec> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] ]
```

### Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
cpu	Show processes CPU Info
<i>__readonly__</i>	(Optional) Readonly table for cpu log
TABLE_process_vdc_cpu	(Optional) All cpu process logs of vdc
<i>pid</i>	(Optional) PID of process
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) uSecs
<i>onsec</i>	(Optional) fivesec
<i>process</i>	(Optional) Name of process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle

### Command Mode

- /exec



## show processes vdc log

```
show processes vdc <e-vdc2> log [ __readonly__ { [ TABLE_processes_vdc_log <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

### Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
<i>__readonly__</i>	(Optional) Read only table
<i>TABLE_processes_vdc_log</i>	(Optional) Table for log of all VDC Processes
<i>pid</i>	(Optional) PID of process
<i>vdc</i>	(Optional) VDC Number
<i>process</i>	(Optional) Process name
<i>normal_exit</i>	(Optional) Normal Exit status
<i>stack</i>	(Optional) Stack
<i>core</i>	(Optional) Core
<i>create_time</i>	(Optional) Time stamp of log

### Command Mode

- /exec

# show processes vdc log details

show processes vdc <e-vdc2> log details

## Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
details	Show detail of all logs with stack

## Command Mode

- /exec

# show processes vdc log pid

show processes vdc <e-vdc2> log pid <i1>

## Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i1</i>	pid of the process

## Command Mode

- /exec

## show processes vdc memory

```
show processes vdc <e-vdc2> memory [ __readonly__ { [ TABLE_process_memory <mem_pid> <mem_alloc>
<mem_limit> <mem_used> <stack_base_ptr> <process> ] [ <sum_mem_malloced> ] } ]
```

### Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

### Command Mode

- /exec

# show pss debug

show pss debug

## Syntax Description

show	Show running system information
pss	display pss information
debug	display pss debug configuration

## Command Mode

- /exec

# show ptp brief

```
show ptp brief [ __readonly__ <gptp-flag> [ TABLE_ptp <ptp-ifindex> <state> [ <dot1as-capable> ] ]
<ptp-end> ]
```

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
brief	port states in brief
__readonly__	(Optional) Read Only
<i>gptp-flag</i>	(Optional) GPTP mode
TABLE_ptp	(Optional) ptp table
<i>ptp-ifindex</i>	(Optional) ptp ifindex
<i>state</i>	(Optional) BMC state
<i>dot1as-capable</i>	(Optional) Dot1AS capable
<i>ptp-end</i>	(Optional) End of table

## Command Mode

- /exec

# show ptp clock

```
show ptp clock [ __readonly__ <clock-id> <domain-id> <num-ports> <priority1> <priority2> <class>
<accuracy> <scaled-log-variance> <offset-from-master> <mean-path-delay-to-master> <steps-removed>
<device-type> <encap> <slave-clock-oper> <master-clock-oper> <src-ip> <slave-only> [
<correction-threshold> ] [ <mean-path-delay-threshold> ] [ <gmTimeBaseIndicator> ] [
<last_gm_phase_change> ] [ <master_cum_scaled_rate_offset> ] [ <scaled_last_gm_freq_change> ] [
<cum_scaled_rate_offset> ] <local-clock-time> <bs-status> ]
```

## Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>clock</code>	Set local clock attributes
<code>__readonly__</code>	(Optional) Read only
<code>domain-id</code>	(Optional) Domain Id
<code>clock-id</code>	(Optional) Clock Id
<code>priority1</code>	(Optional) Priority 1
<code>priority2</code>	(Optional) Priority 2
<code>num-ports</code>	(Optional) Number of PTP ports
<code>class</code>	(Optional) Class
<code>accuracy</code>	(Optional) Clock accuracy
<code>scaled-log-variance</code>	(Optional) scaled log variance
<code>offset-from-master</code>	(Optional) Offset from master
<code>mean-path-delay-to-master</code>	(Optional) mean path delay to master
<code>steps-removed</code>	(Optional) Steps removed
<code>device-type</code>	(Optional) Device Type
<code>encap</code>	(Optional) Encapsulation
<code>src-ip</code>	(Optional) IPv4 address (A.B.C.D) of source (in layer-3 encapsulation)
<code>slave-clock-oper</code>	(Optional) Slave clock operation
<code>master-clock-oper</code>	(Optional) Master clock operation
<code>slave-only</code>	(Optional) Slave-only mode
<code>correction-threshold</code>	(Optional) correction-threshold
<code>mean-path-delay-threshold</code>	(Optional) mean-path-delay threshold

<i>gmTimeBaseIndicator</i>	(Optional) time base indicator for current GM
<i>last_gm_phase_change</i>	(Optional) time difference of current and previous GM
<i>master_cum_scaled_rate_offset</i>	(Optional) cumulative scaled rate offset received from master
<i>scaled_last_gm_freq_change</i>	(Optional) scaled last GM frequency change
<i>cum_scaled_rate_offset</i>	(Optional) cumulative scaled rate offset
<i>local-clock-time</i>	(Optional) Local clock time
<i>bs-status</i>	(Optional) Broadsync status enable/disable

**Command Mode**

- /exec



# show ptp clock foreign-masters record

```
show ptp clock foreign-masters record [ interface <if0> ] [ __readonly__ [ TABLE_ptp <interface-name>
<clock-id> <priority1> <priority2> <class> <accuracy> <scaled-log-variance> <steps-removed> <is-gm> ]
<ptp-end> ]
```

## Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>clock</code>	Set local clock attributes
<code>foreign-masters</code>	foreign-masters
<code>record</code>	record
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>interface-name</code>	(Optional) interface name
<code>clock-id</code>	(Optional) Clock Id
<code>priority1</code>	(Optional) Priority 1
<code>priority2</code>	(Optional) Priority 2
<code>class</code>	(Optional) Class
<code>accuracy</code>	(Optional) Clock accuracy
<code>scaled-log-variance</code>	(Optional) scaled log variance
<code>steps-removed</code>	(Optional) Steps removed
<code>is-gm</code>	(Optional) Is Grandmaster
<code>ptp-end</code>	(Optional) End of table

## Command Mode

- /exec

# show ptp corrections

```
show ptp corrections [ entries <val> ] [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time>
<correction-val> <mean-path-delay> ] <ptp-end> ]
```

## Syntax Description

<i>ptp</i>	Precision Time Protocol (IEEE 1588) Subsystem
<i>__readonly__</i>	(Optional) Read Only
<i>corrections</i>	Display last few corrections
<i>entries</i>	(Optional) Latest entries to display
<i>val</i>	(Optional) Number of latest entries to display
<i>ptp-header</i>	(Optional) Start of table
<i>TABLE_ptp</i>	(Optional) ptp table
<i>intf-name</i>	(Optional) interface name
<i>sup-time</i>	(Optional) sup time
<i>correction-val</i>	(Optional) correction value
<i>ptp-end</i>	(Optional) End of table

## Command Mode

- /exec

## show ptp counters interface

```
show ptp counters { interface <if0> | all } [ { detail | ipv4 <ip> } ] [ __readonly__ [ TABLE_ptp
<interface_name> [ <accepted-ip> ] <tx-announce-pkts> <rx-announce-pkts> <tx-sync-pkts> <rx-sync-pkts>
<tx-follow-up-pkts> <rx-follow-up-pkts> <tx-delay-req-pkts> <rx-delay-req-pkts> <tx-delay-resp-pkts>
<rx-delay-resp-pkts> <tx-pdelay-req-pkts> <rx-pdelay-req-pkts> <tx-pdelay-resp-pkts> <rx-pdelay-resp-pkts>
<tx-pdelay-follow-up-pkts> <rx-pdelay-follow-up-pkts> [ <tx-mgmt-pkts> ] [ <rx-mgmt-pkts> ] ] <ptp-end>
]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
counters	Display PTP packet counters
interface	Enter the port interface
all	Displays all information
<i>if0</i>	
detail	(Optional) Show detail
ipv4	(Optional) IP address for the stat info
<i>ip</i>	(Optional) IPv4 address (A.B.C.D)
TABLE_ptp	(Optional) ptp table
<i>interface_name</i>	(Optional) interface name
<i>accepted-ip</i>	(Optional) Accepted IP in unicast mode
<i>ptp-end</i>	(Optional) End of table

### Command Mode

- /exec

## show ptp packet-trace

```
show ptp packet-trace [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time> <pkt_dir>
<pkt_type> <pkt_info> ] <ptp-end> ]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
packet-trace	Display last few pkt traces
<i>ptp-header</i>	(Optional) Start of table
TABLE_ptp	(Optional) ptp table
<i>intf-name</i>	(Optional) interface name
<i>sup-time</i>	(Optional) sup time
<i>pkt_dir</i>	(Optional) pkt_dir
<i>pkt_type</i>	(Optional) pkt_type
<i>pkt_info</i>	(Optional) pkt_info
<i>ptp-end</i>	(Optional) End of table

### Command Mode

- /exec

# show ptp parent

```
show ptp parent [ __readonly__ <clock-id> <port-num> <obs-parent-offset> <obs-parent-clk-phase-chg> [
<parent-ip> ] <gm-id> <gm-class> <gm-accuracy> <gm-scaled-log-variance> <gm-priority1> <gm-priority2>
[ TABLE-path-trace <path-trace-index> <path-trace-clock-id> ] ]
```

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
parent	parent clock
<i>__readonly__</i>	(Optional) Read only
<i>clock-id</i>	(Optional) Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>obs-parent-offset</i>	(Optional) observed parent offset
<i>obs-parent-clk-phase-chg</i>	(Optional) observed parent clock phase change
<i>parent-ip</i>	(Optional) Parent clock IP
<i>gm-id</i>	(Optional) Grandmaster Id
<i>gm-class</i>	(Optional) Class
<i>gm-accuracy</i>	(Optional) Clock accuracy
<i>gm-scaled-log-variance</i>	(Optional) scaled log variance
<i>gm-priority1</i>	(Optional) GM Priority 1
<i>gm-priority2</i>	(Optional) GM Priority 2
TABLE-path-trace	(Optional) ptp path trace table
<i>path-trace-index</i>	(Optional) Clock Identity index
<i>path-trace-clock-id</i>	(Optional) Clock Identity in path trace

## Command Mode

- /exec

## show ptp port interface

```
show ptp port interface <if0> [ __readonly__ [ TABLE_ptp <intf-name> <clock-id> <port-num> <version>
[ <transport-mode> ] [ <accepted-ip> ] <state> <vlan> <delay-req-intv> <ann-rx-tout> <peer-mean-path-delay>
<ann-intv> <sync-intv> <delay-mechanism> [ <peer-delay-req-intv> ] [ <device-type> ] [ <encap> ] [
<prop-delay-thresh> ] [ <neighbor-rate-ratio> ] <cost> <int-domain-id> ] <ptp-end> ]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
port	port
interface	Enter the port interface
<i>if0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_ptp</i>	(Optional) ptp table
<i>intf-name</i>	(Optional) interface name
<i>clock-id</i>	(Optional) Port ID: Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>version</i>	(Optional) version
<i>transport-mode</i>	(Optional) Transport mode
<i>accepted-ip</i>	(Optional) Accepted IPs
<i>state</i>	(Optional) BMC state
<i>vlan</i>	(Optional) Vlan
<i>delay-req-intv</i>	(Optional) log mean delay req interval
<i>ann-rx-tout</i>	(Optional) announce receipt timeout
<i>peer-mean-path-delay</i>	(Optional) peer mean path delay
<i>ann-intv</i>	(Optional) announce interval
<i>sync-intv</i>	(Optional) sync interval
<i>delay-mechanism</i>	(Optional) delay mechanism
<i>peer-delay-req-intv</i>	(Optional) peer delay req interval
<i>device-type</i>	(Optional) Device Type
<i>encap</i>	(Optional) Encapsulation

<i>prop-delay-thresh</i>	(Optional) propagation delay threshold
<i>neighbor-rate-ratio</i>	(Optional) Neighbor rate-ratio
<i>cost</i>	(Optional) Cost
<i>int-domain-id</i>	(Optional) domain id
<i>ptp-end</i>	(Optional) End of Table

**Command Mode**

- /exec

## show ptp time-property

show ptp time-property [ *\_\_readonly\_\_* <current-utc-offset-valid> <current-utc-offset> <leap-59> <leap-61> <time-traceable> <freq-traceable> <ptp-timescale> <time-source> ]

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
time-property	time property
<i>__readonly__</i>	(Optional) Read only
<i>current-utc-offset-valid</i>	(Optional) current_utc_offset_valid
<i>current-utc-offset</i>	(Optional) current_utc_offset
<i>leap-59</i>	(Optional) leap-59
<i>leap-61</i>	(Optional) leap-61
<i>time-traceable</i>	(Optional) time-traceable
<i>freq-traceable</i>	(Optional) freq-traceable
<i>ptp-timescale</i>	(Optional) ptp-timescale
<i>time-source</i>	(Optional) time-source

### Command Mode

- /exec





## Q Show Commands

---

- [show qos dcbxp incompatibility interface](#), on page 2072
- [show qos dcbxp info](#), on page 2074
- [show qos dcbxp interface](#), on page 2075
- [show queuing](#), on page 2077
- [show queuing pfc-queue](#), on page 2079
- [show queuing pfc-queue snmp ifIndex](#), on page 2081
- [show queuing tabular](#), on page 2082

## show qos dcbxp incompatibility interface

```
show qos dcbxp incompatibility interface <iface-num> [ __readonly__ { [ { TABLE_local_pfc <vl_id_lpfce>
[ <lpfc> ] } ] [ { TABLE_remote_pfc <vl_id_rpfce> [ <rpfc> ] } ] [ <mtu> ] [ { TABLE_lpg <vl_id_lpg> [
<cos_list_lpg> ] [ <bandwidth_lpg> ] } ] [ { TABLE_rpg <vl_id_rpg> [ <cos_list_rpg> ] [ <bandwidth_rpg>
] } ] [ <bw> ] [ <lfcoe> ] [ <rfcoe> ] [ <liscsi> ] [ <riscsi> ] } ] }
```

### Syntax Description

show	Show running system information
dcbxp	DCBXP
incompatibility	incompatibility information
interface	incompatibility info for interface
<i>iface-num</i>	Interface
<i>__readonly__</i>	(Optional)
TABLE_local_pfc	(Optional) local pfc table
<i>vl_id_lpfce</i>	(Optional) vl ID for local PFC
<i>lpfc</i>	(Optional) local pfc
TABLE_remote_pfc	(Optional) remote pfc table
<i>vl_id_rpfce</i>	(Optional) vl ID for remote PFC
<i>rpfc</i>	(Optional) remote pfc
<i>mtu</i>	(Optional) MTU Value
TABLE_lpg	(Optional) LPG Table
<i>vl_id_lpg</i>	(Optional) vl ID for LPG
<i>cos_list_lpg</i>	(Optional) cos list for LPG
<i>bandwidth_lpg</i>	(Optional) bandwidth for LPG
TABLE_rpg	(Optional) RPG Table
<i>vl_id_rpg</i>	(Optional) vl ID for RPG
<i>cos_list_rpg</i>	(Optional) cos list for RPG
<i>bandwidth_rpg</i>	(Optional) bandwidth for RPG
<i>bw</i>	(Optional) CIN: bandwidth/priority
<i>lfcoe</i>	(Optional) local fcoe

<i>rfcoe</i>	(Optional) remote fcoe
<i>liscsi</i>	(Optional) local iscsi
<i>riscsi</i>	(Optional) remote iscsi

**Command Mode**

- /exec

## show qos dcbxp info

```
show qos dcbxp info [ __readonly__ { TABLE_dcbxp <intf> <pfer> <pfcc> <pgr> <pgc> <mtur> <mtuc>
<fcoer> <fcoec> <iscsir> <iscsic> } ]
```

### Syntax Description

show	Show running system information
dcbxp	DCBXP
info	information
__readonly__	(Optional)
TABLE_dcbxp	(Optional) dxcbsp info
<i>intf</i>	(Optional) Interface
<i>pfer</i>	(Optional) pfc recvd
<i>pfcc</i>	(Optional) pfc compatible
<i>pgr</i>	(Optional) pg received
<i>pgc</i>	(Optional) pg compatible
<i>mtur</i>	(Optional) mtu received
<i>mtuc</i>	(Optional) mtu compatible
<i>fcoer</i>	(Optional) fcoe received
<i>fcoec</i>	(Optional) fcoe compatible
<i>iscsir</i>	(Optional) iscsi received
<i>iscsic</i>	(Optional) iscsi compatible

### Command Mode

- /exec

## show qos dcbxp interface

```
show qos dcbxp interface [ <iface> ] [ __readonly__ [ <intf> { <info_absent> | { [ <local_pfc_cap>
<local_pfc_enable_list> ] [ <peers_pfc_cap> <peers_pfc_enable_list> ] [ <local_ets_maxtc>
<local_ets_priority_list> <local_ets_bandwidth_list> <local_ets_tsa_list> ] [ <peers_ets_maxtc>
<peers_ets_priority_list> <peers_ets_bandwidth_list> <peers_ets_tsa_list> ] [ <local_app_pri>
<local_app_type> <local_app_num> ] + [ <peers_app_pri> <peers_app_type> <peers_app_num> ] + [
<local_map_pri> <local_map_dscp> ] + [ <peers_map_pri> <peers_map_dscp> ] + } } ] + ]
```

### Syntax Description

show	Show running system information
qos	QoS
dcbxp	DCBXP
interface	Per-interface information
<i>iface</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
<i>intf</i>	(Optional) Interface
<i>info_absent</i>	(Optional) No information is present for this Interface.
<i>local_pfc_cap</i>	(Optional) Number of Local Flows
<i>local_pfc_enable_list</i>	(Optional) List of Local Flows Enabled
<i>peers_pfc_cap</i>	(Optional) Number of Peer Flows
<i>peers_pfc_enable_list</i>	(Optional) List of Peer Flows Enabled
<i>local_ets_maxtc</i>	(Optional) Local ETS Maximum Traffic Classes
<i>local_ets_priority_list</i>	(Optional) Local ETS Priority List
<i>local_ets_bandwidth_list</i>	(Optional) Local ETS Bandwidth List
<i>local_ets_tsa_list</i>	(Optional) Local ETS TSA List
<i>peers_ets_maxtc</i>	(Optional) Peer ETS Maximum Traffic Classes
<i>peers_ets_priority_list</i>	(Optional) Peer ETS Priority List
<i>peers_ets_bandwidth_list</i>	(Optional) Peer ETS Bandwidth List
<i>peers_ets_tsa_list</i>	(Optional) Peer ETS TSA List
<i>local_app_pri</i>	(Optional) Local Application Priority
<i>local_app_type</i>	(Optional) Local Application Number Type

<i>local_app_num</i>	(Optional) Local Application Number
<i>peers_app_pri</i>	(Optional) Peer Application Priority
<i>peers_app_type</i>	(Optional) Peer Application Number Type
<i>peers_app_num</i>	(Optional) Peer Application Number
<i>local_map_pri</i>	(Optional) Local Map Priority
<i>local_map_dscp</i>	(Optional) Local Map DSCP Value
<i>peers_map_pri</i>	(Optional) Peer Map Priority
<i>peers_map_dscp</i>	(Optional) Peer Map DSCP Value

**Command Mode**

- /exec

# show queuing

```
show queuing [ interface [ <if_list> ] ] [ summary ] [ module <module> ] [ __readonly__ [
TABLE_interface_mtu <intf_name> <mtu_val> ] [ TABLE_queuing_interface <dir> <if_name_str> [
TABLE_qosgrp_cfg <qosgrp> [ <bandwidth> ] [ <priority> ] [ <shape-min> ] [ <shape-max> ] [ <shape-units>
] [ <buffer-size> ] [ <pause-threshold> ] [ <resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [
<mc-drop-pkt> ] [ TABLE_qosgrp_egress_stats <eq-qosgrp> [ TABLE_qosgrp_egress_stats_entry
<eq-stat-type> <eq-stat-units> <eq-uc-stat-value> [ <eq-oobfc-uc-stat-value> ] [ <eq-mc-stat-value> ] ] ] [
TABLE_egress_stats_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ TABLE_ingress_stats_entry
<ip-stat-type> <ip-stat-units> <ip-stat-value> ] [ <tx-ppp> <rx-ppp> [ TABLE_pfc_stats <cos> [ <pfc-qosgrp>
] [ <pfc-pg> ] <tx-pause-state> <tx-pause-count> <rx-pause-state> <rx-pause-count> ] ] ] ]
```

## Syntax Description

show	commands to display
queuing	Queuing related information
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
summary	(Optional) summary
<i>__readonly__</i>	(Optional)
TABLE_interface_mtu	(Optional) mtu values of each interface
<i>intf_name</i>	(Optional) interface name
<i>mtu_val</i>	(Optional) mtu val of interface
TABLE_queuing_interface	(Optional) Queuing information of an interface
<i>dir</i>	(Optional) Direction
<i>if_name_str</i>	(Optional) interface name
TABLE_qosgrp_cfg	(Optional) Qos-group configuration
<i>qosgrp</i>	(Optional) Qos-group value
<i>bandwidth</i>	(Optional) WRR bandwidth
<i>priority</i>	(Optional) Priority level
<i>shape-units</i>	(Optional) Shape units
<i>q-limit</i>	(Optional) Queue limit

<i>q-limit-type</i>	(Optional) Queue limit type (S-Static, D-Dynamic, U-Unlimited)
TABLE_qosgrp_egress_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
TABLE_qosgrp_egress_stats_entry	(Optional) Qos-group egress statistics entry
<i>eq-stat-type</i>	(Optional) Qos-group egress statistics type
<i>eq-stat-units</i>	(Optional) Qos-group egress statistics units
TABLE_egress_stats_entry	(Optional) Egress port statistics
<i>ep-stat-type</i>	(Optional) Egress port statistics type
<i>ep-stat-units</i>	(Optional) Egress port statistics units
TABLE_ingress_stats_entry	(Optional) Ingress port statistics
<i>ip-stat-type</i>	(Optional) Ingress port statistics type
<i>ip-stat-units</i>	(Optional) Ingress port statistics units
TABLE_pfc_stats	(Optional) Per COS PFC statistics
<i>cos</i>	(Optional) PFC COS
<i>pfc-qosgrp</i>	(Optional) Qos-group of the given COS
<i>pfc-pg</i>	(Optional) PG of the given COS/Qos-group
<i>tx-pause-state</i>	(Optional) Tx PFC state of the given COS
<i>rx-pause-state</i>	(Optional) Rx PFC state of the given COS

### Command Mode

- /exec



## show queuing pfc-queue

```
show queuing pfc-queue [ interface <if_list> ] [ module <module> ] [ detail ] [ __readonly__ <glb-wd-status>
<glb-wd-force-status> <glb-wd-timer> <glb-wd-timer-thresh> <glb-auto-restore> <glb-fixed-restore>
<glb-int-intf-multi> [ TABLE_queuing_interface <if_name_str> <wd-status> [ <disable-action> ] [ <intf-multi>
] [ <vl-bmp> ] [ <qosgrp_7_state> ] [ <qosgrp_6_state> ] [ <qosgrp_5_state> ] [ <qosgrp_4_state> ] [
<qosgrp_3_state> ] [ <qosgrp_2_state> ] [ <qosgrp_1_state> ] [ <qosgrp_0_state> ] [ TABLE_qosgrp_stats
<eq-qosgrp> <eq-qosgrp-state> <pfc-configured> <pfc-cos> TABLE_qosgrp_stats_entry <q-stat-type> [
<q-shutdown> ] [ <q-restored> ] [ <q-pkt-drained> ] [ <q-pkt-dropped> ] [ <q-pkt-drained-n-dropped> ] [
<q-aggr-pkt-dropped> ] [ <q-ing-pkt-dropped> ] [ <q-ing-aggr-pkt-dropped> ] ] ] ]
```

### Syntax Description

show	commands to display
queuing	Queuing related information
pfc-queue	PFC Queuing related information
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) Show detailed PFC Queuing WD information
<i>__readonly__</i>	(Optional)
<i>glb-wd-status</i>	(Optional) Global watch-dog timer status
<i>glb-wd-force-status</i>	(Optional) Global watch-dog forcestatus
<i>glb-wd-timer</i>	(Optional) Global watch-dog timer value in msec
<i>glb-wd-timer-thresh</i>	(Optional) Global watch-dog timer thresh value in ms
<i>glb-auto-restore</i>	(Optional) Global auto restore multiplier value
<i>glb-fixed-restore</i>	(Optional) Global fixed restore multiplier value
<i>glb-int-intf-multi</i>	(Optional) Global internal interface multiplier value
<i>disable-action</i>	(Optional) Only generate syslog for queue stuck, no action
<i>intf-multi</i>	(Optional) Interface multiplier value
<i>if_name_str</i>	(Optional) interface name
TABLE_queuing_interface	(Optional) Queuing information of an interface
<i>wd-status</i>	(Optional) PFC watch-dog status

<i>vl-bmp</i>	(Optional) VL Bitmap
<i>qosgrp_7_state</i>	(Optional) Qos group 7 state
<i>qosgrp_6_state</i>	(Optional) Qos group 6 state
<i>qosgrp_5_state</i>	(Optional) Qos group 5 state
<i>qosgrp_4_state</i>	(Optional) Qos group 4 state
<i>qosgrp_3_state</i>	(Optional) Qos group 3 state
<i>qosgrp_2_state</i>	(Optional) Qos group 2 state
<i>qosgrp_1_state</i>	(Optional) Qos group 1 state
<i>qosgrp_0_state</i>	(Optional) Qos group 0 state
TABLE_qosgrp_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
<i>eq-qosgrp-state</i>	(Optional) Qos-group state
<i>pfc-configured</i>	(Optional) PFC configuration
<i>pfc-cos</i>	(Optional) PFC Cos value
TABLE_qosgrp_stats_entry	(Optional) Qos-group egress statistics entry
<i>q-stat-type</i>	(Optional) Queue stat

**Command Mode**

- /exec

## show queuing pfc-queue snmp ifIndex

```
show queuing pfc-queue snmp ifIndex <ifidx> [ __readonly__ TABLE-cpfcWatchdogIfQueueInfoTable
<ifidx_out> <queueno_out> <q-state> <q-shutdown> <q-restored> <q-pkt-dropped> <q-aggr-pkt-dropped>
<q-ing-pkt-dropped> <q-ing-aggr-pkt-dropped> ]
```

### Syntax Description

show	Show running system information
queuing	Queuing related information
pfc-queue	PFC Queuing related information
snmp	Snmp information
ifIndex	Interface index
<i>ifidx</i>	Index
<i>__readonly__</i>	(Optional) Read Only
TABLE-cpfcWatchdogIfQueueInfoTable	(Optional) SNMP table
<i>ifidx_out</i>	(Optional) Interface index out
<i>queueno_out</i>	(Optional) Queue number out
<i>q-state</i>	(Optional) Queue state
<i>q-shutdown</i>	(Optional) Number of times queue is shutdown
<i>q-restored</i>	(Optional) Number of times queue is restored
<i>q-pkt-dropped</i>	(Optional) Number of packets dropped since last shutdown
<i>q-aggr-pkt-dropped</i>	(Optional) Number of aggregate packets dropped
<i>q-ing-pkt-dropped</i>	(Optional) Number of Ingress packets dropped
<i>q-ing-aggr-pkt-dropped</i>	(Optional) Number of aggregate Ingress packets dropped

### Command Mode

- /exec

## show queuing tabular

```
show queuing tabular [ non-zero [ drop-only ] ] [ interface <if_list> ] [ module <module> ] [ __readonly__ [
TABLE_queuing_interface<if_name_str><qos_group_name_0><qos_group_name_1><qos_group_name_2>
<qos_group_name_3><qos_group_name_4><qos_group_name_5><qos_group_name_6>
<qos_group_name_7><qos_group_name_cpu><qos_group_name_span><tx_uc_pkt_qos_0>
<tx_uc_byte_qos_0><tx_uc_drop_pkt_qos_0><tx_uc_drop_byte_qos_0><tx_uc_ecn_pkt_qos_0>
<tx_uc_ecn_byte_qos_0><tx_oobfc_uc_pkt_qos_0><tx_oobfc_uc_byte_qos_0>
<tx_oobfc_uc_drop_pkt_qos_0><tx_oobfc_uc_drop_byte_qos_0><tx_fld_pkt_qos_0><tx_fld_byte_qos_0>
<tx_fld_drop_pkt_qos_0><tx_fld_drop_byte_qos_0><tx_mc_pkt_qos_0><tx_mc_byte_qos_0>
<tx_mc_drop_pkt_qos_0><tx_mc_drop_byte_qos_0><pfc_rx_qos_0><pfc_tx_qos_0><qos_grp_1>
<qos_grp_2><qos_grp_3><qos_grp_4><qos_grp_5><qos_grp_6><qos_grp_7><qos_grp_cpu>
<qos_grp_span><ing_drop_pkt> ] ]
```

### Syntax Description

show	commands to display
queuing	Queuing related information
tabular	QoS stats in tabular form
non-zero	(Optional) Interface for non-zero stats
drop-only	(Optional) Interface for non-zero drop-only stats
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
__readonly__	(Optional)
<i>if_name_str</i>	(Optional) interface name
TABLE_queuing_interface	(Optional) Queuing information of an interface
<i>qos_group_name_0</i>	(Optional) QoS Group name
<i>qos_group_name_1</i>	(Optional) QoS Group name
<i>qos_group_name_2</i>	(Optional) QoS Group name
<i>qos_group_name_3</i>	(Optional) QoS Group name
<i>qos_group_name_4</i>	(Optional) QoS Group name
<i>qos_group_name_5</i>	(Optional) QoS Group name
<i>qos_group_name_6</i>	(Optional) QoS Group name

<i>qos_group_name_7</i>	(Optional) QoS Group name
<i>qos_group_name_cpu</i>	(Optional) QoS Group name
<i>qos_group_name_span</i>	(Optional) QoS Group name

**Command Mode**

- /exec

show queuing tabular



## R Show Commands

---

- [show radius-cfs](#), on page 2089
- [show radius-server](#), on page 2090
- [show radius-server](#), on page 2092
- [show radius-server directed-request](#), on page 2093
- [show radius-server groups](#), on page 2094
- [show radius-server sorted](#), on page 2095
- [show radius-server statistics](#), on page 2096
- [show radius status](#), on page 2098
- [show redundancy status](#), on page 2099
- [show regexp](#), on page 2101
- [show reload](#), on page 2102
- [show resource](#), on page 2103
- [show rmon](#), on page 2104
- [show role](#), on page 2106
- [show role feature-group](#), on page 2108
- [show role feature](#), on page 2109
- [show rollback log exec](#), on page 2110
- [show rollback status](#), on page 2111
- [show route-map](#), on page 2112
- [show route-map pbr-statistics](#), on page 2113
- [show router-guard](#), on page 2114
- [show routing-context](#), on page 2115
- [show routing](#), on page 2116
- [show routing clients](#), on page 2120
- [show routing hash](#), on page 2122
- [show routing hidden-nh](#), on page 2125
- [show routing ipv6](#), on page 2126
- [show routing ipv6 clients](#), on page 2129
- [show routing ipv6 hash](#), on page 2133
- [show routing ipv6 hidden-nh](#), on page 2135
- [show routing ipv6 memory estimate](#), on page 2136
- [show routing ipv6 memory statistics](#), on page 2138
- [show routing ipv6 multicast](#), on page 2140

- [show routing ipv6 multicast clients](#), on page 2143
- [show routing ipv6 multicast memory estimate](#), on page 2146
- [show routing ipv6 nhlfe](#), on page 2148
- [show routing ipv6 recursive-next-hop](#), on page 2150
- [show routing memory estimate](#), on page 2151
- [show routing memory statistics](#), on page 2153
- [show routing multicast clients](#), on page 2155
- [show routing multicast lisp encap](#), on page 2159
- [show routing multicast mdt encapsulation](#), on page 2160
- [show routing multicast memory estimate](#), on page 2161
- [show routing nhlfe](#), on page 2163
- [show routing recursive-next-hop](#), on page 2165
- [show routing vxlan-hash peer-ip](#), on page 2167
- [show routing vxlan-hash peer-ipv6](#), on page 2168
- [show running-config](#), on page 2169
- [show running-config aaa](#), on page 2170
- [show running-config acllog](#), on page 2171
- [show running-config aclmgr](#), on page 2172
- [show running-config adjmgr](#), on page 2173
- [show running-config all](#), on page 2174
- [show running-config arp](#), on page 2175
- [show running-config assoc](#), on page 2176
- [show running-config backup](#), on page 2177
- [show running-config bfd](#), on page 2178
- [show running-config bgp](#), on page 2179
- [show running-config bloggerd](#), on page 2180
- [show running-config callhome](#), on page 2181
- [show running-config catena](#), on page 2182
- [show running-config cdp](#), on page 2183
- [show running-config cert-enroll](#), on page 2184
- [show running-config cfs](#), on page 2185
- [show running-config clock\\_manager](#), on page 2186
- [show running-config config-profile](#), on page 2187
- [show running-config config-template](#), on page 2188
- [show running-config controller](#), on page 2189
- [show running-config copp](#), on page 2190
- [show running-config dhcp](#), on page 2191
- [show running-config diagnostic](#), on page 2192
- [show running-config diff](#), on page 2193
- [show running-config dot1x](#), on page 2194
- [show running-config ecp](#), on page 2195
- [show running-config eem](#), on page 2196
- [show running-config eigrp](#), on page 2197
- [show running-config eltm](#), on page 2198
- [show running-config evb](#), on page 2199
- [show running-config exclude](#), on page 2200



- [show running-config expand-port-profile](#), on page 2201
- [show running-config fabric forwarding](#), on page 2202
- [show running-config fabric multicast](#), on page 2203
- [show running-config fabricpath](#), on page 2204
- [show running-config fabricpath domain default](#), on page 2205
- [show running-config fabricpath switch-id](#), on page 2206
- [show running-config fabricpath topology](#), on page 2207
- [show running-config fcoe\\_mgr](#), on page 2208
- [show running-config hardware-telemetry](#), on page 2209
- [show running-config hsrp](#), on page 2210
- [show running-config icam](#), on page 2211
- [show running-config icmpv6](#), on page 2212
- [show running-config igmp](#), on page 2213
- [show running-config imp](#), on page 2214
- [show running-config interface](#), on page 2215
- [show running-config interface](#), on page 2216
- [show running-config ip](#), on page 2217
- [show running-config ipqos](#), on page 2218
- [show running-config ipv6](#), on page 2219
- [show running-config isis](#), on page 2220
- [show running-config l3vm](#), on page 2221
- [show running-config ldap](#), on page 2222
- [show running-config license](#), on page 2223
- [show running-config lisp](#), on page 2224
- [show running-config lldp](#), on page 2225
- [show running-config macsec](#), on page 2226
- [show running-config mmode](#), on page 2227
- [show running-config monitor](#), on page 2228
- [show running-config mpls static](#), on page 2229
- [show running-config mpls strip](#), on page 2230
- [show running-config mpls traffic-eng](#), on page 2231
- [show running-config msdp](#), on page 2232
- [show running-config nat](#), on page 2233
- [show running-config nbm](#), on page 2234
- [show running-config ngoam](#), on page 2235
- [show running-config ntp](#), on page 2236
- [show running-config nv overlay](#), on page 2237
- [show running-config nxsdk](#), on page 2238
- [show running-config openflow](#), on page 2239
- [show running-config ospf](#), on page 2240
- [show running-config ospfv3](#), on page 2241
- [show running-config otv-isis](#), on page 2242
- [show running-config otv](#), on page 2243
- [show running-config param-list](#), on page 2244
- [show running-config pim](#), on page 2245
- [show running-config pim6](#), on page 2246

- [show running-config plb-services](#), on page 2247
- [show running-config poe](#), on page 2248
- [show running-config port-profile](#), on page 2249
- [show running-config port-security](#), on page 2250
- [show running-config ptp](#), on page 2251
- [show running-config radius](#), on page 2252
- [show running-config rip](#), on page 2253
- [show running-config routing ip multicast](#), on page 2254
- [show running-config routing ipv6 multicast](#), on page 2255
- [show running-config rpm](#), on page 2256
- [show running-config rsvp](#), on page 2257
- [show running-config scheduler](#), on page 2258
- [show running-config section](#), on page 2259
- [show running-config security](#), on page 2260
- [show running-config segment-routing](#), on page 2261
- [show running-config services](#), on page 2262
- [show running-config services](#), on page 2263
- [show running-config sflow](#), on page 2264
- [show running-config sla responder](#), on page 2265
- [show running-config sla sender](#), on page 2266
- [show running-config sla twamp-server](#), on page 2267
- [show running-config smart-channel](#), on page 2268
- [show running-config snmp](#), on page 2269
- [show running-config spanning-tree](#), on page 2270
- [show running-config srte](#), on page 2271
- [show running-config switch](#), on page 2272
- [show running-config tacacs](#), on page 2273
- [show running-config telemetry](#), on page 2274
- [show running-config track](#), on page 2275
- [show running-config udld](#), on page 2276
- [show running-config vdc-all](#), on page 2277
- [show running-config vdc](#), on page 2278
- [show running-config virtual-service](#), on page 2279
- [show running-config vlan](#), on page 2280
- [show running-config vlan](#), on page 2281
- [show running-config vlan](#), on page 2282
- [show running-config vmtracker](#), on page 2283
- [show running-config vpc](#), on page 2284
- [show running-config vrf](#), on page 2285
- [show running-config vrf default](#), on page 2286
- [show running-config vrrp](#), on page 2287
- [show running-config vrrpv3](#), on page 2288
- [show running-config vshd](#), on page 2289
- [show running-config vtp](#), on page 2290
- [show running-config wwnm](#), on page 2291

## show radius-cfs

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

### Syntax Description

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

### Command Mode

- /exec

## show radius-server

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

### Syntax Description

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

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

**Command Mode**

- /exec

## show radius-server

```
show radius-server { <host> } [ __readonly__ { <host1> } [ <authen_port> ] [ <account_port> ] [ <share_key> ] [ <timeout> ] [ <retries> ] [ <secure_radius> ] [ <aid> ] <idle_tim> <test_user_name> <test_pwd> ]
```

### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>host</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>authen_port</i>	(Optional) RADIUS server's port for authentication
<i>account_port</i>	(Optional) RADIUS server's port for accounting
<i>timeout</i>	(Optional) radius server timeout
<i>retries</i>	(Optional) radius server retry count
<i>secure_radius</i>	(Optional) secure radius enabled or not
<i>aid</i>	(Optional) Authority identity
<i>share_key</i>	(Optional) RADIUS shared secret
<i>test_user_name</i>	(Optional) User name in test packets
<i>test_pwd</i>	(Optional) User password in test packets
<i>idle_tim</i>	(Optional) Time interval for monitoring the server

### Command Mode

- /exec

# show radius-server directed-request

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

## Syntax Description

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

## Command Mode

- /exec

## show radius-server groups

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

### Syntax Description

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

### Command Mode

- /exec



## show radius-server sorted

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

### Syntax Description

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

### Command Mode

- /exec

## show radius-server statistics

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

### Syntax Description

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

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

**Command Mode**

- /exec

## show radius status

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

### Syntax Description

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

### Command Mode

- /exec

# show redundancy status

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

## Syntax Description

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

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

**Command Mode**

- /exec

# show regexp

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

## Syntax Description

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

## Command Mode

- /exec

# show reload

show reload [ *\_\_readonly\_\_* <reload-schedule> ]

## Syntax Description

show	Show running system information
reload	Display information about scheduled reload
<i>__readonly__</i>	(Optional)
<i>reload-schedule</i>	(Optional) Reload scheduling info

## Command Mode

- /exec



# show resource

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

## Syntax Description

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

## Command Mode

- /exec

## show rmon

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

### Syntax Description

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

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

### Command Mode

- /exec

# show role

```
show role [ name <arg3> ] [ __readonly__ { TABLE_role <role_name> <role_description> [ <attribute_scope> ] [ <permit_vsan> ] [ <permit_vlan> ] [ <permit_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
role	Show role configuration
name	(Optional) Enter the role name
arg3	(Optional) Enter the role name
__readonly__	(Optional)
TABLE_role	(Optional)
role_name	(Optional)
role_description	(Optional)
attribute_scope	(Optional)
permit_vsan	(Optional)
permit_vlan	(Optional)
permit_vlan_id	(Optional)
permit_interface	(Optional)
permit_interface_slot	(Optional)
permit_vrf	(Optional)
TABLE_rule	(Optional)
rule_num	(Optional)
rule_action	(Optional)
rule_permission	(Optional)
rule_permission_mds	(Optional)
rule_featuretype	(Optional)
rule_entity	(Optional)

## Command Mode

- /exec

# show role feature-group

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

## Syntax Description

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

## Command Mode

- /exec

# show role feature

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

## Syntax Description

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

## Command Mode

- /exec

# show rollback log exec

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

## Syntax Description

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

## Command Mode

- /exec



## show rollback status

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

### Syntax Description

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

### Command Mode

- /exec

# show route-map

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

## Syntax Description

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

## Command Mode

- /exec

## show route-map pbr-statistics

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

### Syntax Description

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

### Command Mode

- /exec

# show router-guard

```
show router-guard [ vlan <vlan_id> ] [ __readonly__ [ TABLE_vlanid { <vlanid>
<globally-enabled-switch-port> } [ TABLE_if [ <disabled-if> ] ] ] ] ]
```

## Syntax Description

show	Show running system information
router-guard	Shows router guard config details for all interfaces
vlan	(Optional) Only for the specified VLAN
<i>vlan_id</i>	(Optional) VLAN ID
<i>__readonly__</i>	(Optional)
TABLE_vlanid	(Optional)
<i>vlanid</i>	(Optional)
<i>globally-enabled-switch-port</i>	(Optional)
TABLE_if	(Optional)
<i>disabled-if</i>	(Optional)

## Command Mode

- /exec

# show routing-context

show routing-context [ \_\_readonly\_\_ <routing-con> ]

## Syntax Description

show	Show running system information
routing-context	Display the current routing context
__readonly__	(Optional)
<i>routing-con</i>	(Optional)

## Command Mode

- /exec

## show routing

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

### Syntax Description

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

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

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

**Command Mode**



- /exec

## show routing clients

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
clients	Display urib client information
<i>client</i>	(Optional) Display single urib client information
<i>protocol</i>	(Optional) Display single urib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)
<i>pib_index</i>	(Optional)
<i>epid</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)

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

**Command Mode**

- /exec

## show routing hash

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
<i>source</i>	Source IPv4 address of unicast flow or group address for multicast flow
<i>dest</i>	Destination IPv4 address of unicast flow or source address for multicast flow
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only
<i>in-interface</i>	(Optional) Interface Name
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet

<code>gtpu-teid</code>	(Optional) GTPu TEID for the packet
<i>gtpu-teid</i>	(Optional) GTPu TEID for the packet
<code>module</code>	(Optional) Module
<i>module-id</i>	(Optional) Module
<code>__readonly__</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<i>vrf-name-out</i>	(Optional)
<code>TABLE_addrf</code>	(Optional)
<i>addrf</i>	(Optional)
<code>TABLE_hashpath</code>	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>hash-val</i>	(Optional)
<code>TABLE_prefix</code>	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
<code>TABLE_path</code>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>tag</i>	(Optional)

<i>stale</i>	(Optional)
<i>unres</i>	(Optional)
<i>hidden</i>	(Optional)
<i>stale-label</i>	(Optional)

**Command Mode**

- /exec

# show routing hidden-nh

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

## Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>utibtibtype_topologyname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rnh</i>	(Optional)
<i>rnh_mask_len</i>	(Optional)

## Command Mode

- /exec

## show routing ipv6

```
show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix>
[ { longer-prefixes | shorter-prefixes } ] ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop
<next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary |
{ [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached>
] TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ]
<uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] ] [
TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
l3vm-info	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
rpf	(Optional) Display RPF information for multicast source
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
<i>ipv6-protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
bind-label	(Optional) Display routes with this bind-label only
<i>bind-lbl</i>	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
interface	(Optional) Display routes with this output interface only



<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
deleted	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail	(Optional) Display routes in full detail
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>nexthop-vrf-name</i>	(Optional)
<i>ifname</i>	(Optional)
<i>bindlbl</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)

<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>stalelbl</i>	(Optional)
<i>hidden</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 clients

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
clients	Display u6rib client information
<i>client</i>	(Optional) Display single u6rib client information
<i>ipv6-protocol</i>	(Optional) Display single u6rib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)

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

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

TABLE_msgs_rcvd	(Optional)
TABLE_msgs_sent	(Optional)

**Command Mode**

- /exec

## show routing ipv6 hash

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
mpls	(Optional) MPLS path load-balancing hash information
eos	(Optional) Set End-of-Stack to 1
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only.
<i>in-interface</i>	(Optional) Interface Name
module	(Optional) Module
<i>module-id</i>	(Optional) Module
__readonly__	(Optional)

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

**Command Mode**

- /exec



## show routing ipv6 hidden-nh

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>nh</i>	(Optional)
<i>nh-iod</i>	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rnh</i>	(Optional)
<i>rnh_mask_len</i>	(Optional)

### Command Mode

- /exec

## show routing ipv6 memory estimate

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

### Syntax Description

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

**Command Mode**

- /exec

## show routing ipv6 memory statistics

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

### Syntax Description

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

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

**Command Mode**

- /exec

## show routing ipv6 multicast

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

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
routing	Display routing information
multicast	Display multicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
summary	(Optional) Display route counts
software-forwarded	(Optional) Display software switched route counts only
rp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
count	(Optional) Display route counts only
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_addr	(Optional)

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

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

**Command Mode**

- /exec



## show routing ipv6 multicast clients

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

### Syntax Description

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

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

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

**Command Mode**

- /exec

## show routing ipv6 multicast memory estimate

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

### Syntax Description

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

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

**Command Mode**

- /exec

## show routing ipv6 nhlfe

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
nhlfe	Display NHLFE db
stats	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>nhlfe-owner</i>	(Optional)
<i>nhlfe-refcount</i>	(Optional)
TABLE_nhlabel	(Optional)
<i>nlabel-index</i>	(Optional)
<i>nh-label</i>	(Optional)
<i>nhlfe-is-vpn</i>	(Optional)
<i>nhlfe-owner-index</i>	(Optional)
<i>total-entries</i>	(Optional)

## Command Mode

- /exec

## show routing ipv6 recursive-next-hop

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
recursive-next-hop	Display recursive next-hop table
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>client-req</i>	(Optional)
<i>client-pend</i>	(Optional)

### Command Mode

- /exec



## show routing memory estimate

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

### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
estimate	Display urib memory estimate
routes	(Optional) Display urib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display urib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
<i>nh-unique</i>	(Optional) Number of unique next-hops (between 1 and route-count*nh-count)
next-hops-v6	(Optional) Display urib memory estimate for # V6 next-hops per route
<i>nh6-count</i>	(Optional) Number of V6 next-hops per route
<i>nh6-unique</i>	(Optional) Number of unique V6 next-hops (between 1 and route-count*nh6-count)
next-hops-srte	(Optional) Display urib memory estimate for # srte next-hops per route
<i>srte-count</i>	(Optional) Number of srte next-hops per route
<i>srte-unique</i>	(Optional) Number of unique srte next-hops (between 1 and route-count*srte-count)
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)

<i>current_max_mb</i>	(Optional)
<i>current_max_routes</i>	(Optional)
<i>urib_max_nh</i>	(Optional)
<i>used_mb</i>	(Optional)
<i>route_stats_alloc_count</i>	(Optional)
<i>nhs</i>	(Optional)
<i>configured_max_mb</i>	(Optional)
<i>configured_max_routes</i>	(Optional)
<i>urib_routes_max_nh</i>	(Optional)
<i>estimate_mb</i>	(Optional)
<i>estimate_routes</i>	(Optional)
<i>estimate_nhs</i>	(Optional)
<i>estimate_with_mvpn_mb</i>	(Optional)
<i>estimate_with_ospf_mb</i>	(Optional)
<i>estimate_with_eigrp_mb</i>	(Optional)

**Command Mode**

- /exec

## show routing memory statistics

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

### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
statistics	Display urib memory statistics
debug	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_shrd_mem	(Optional)
<i>ubuf-alloc</i>	(Optional)
<i>ubuf-high-water</i>	(Optional)
<i>ubuf-max</i>	(Optional)
<i>ubuf-numalloc</i>	(Optional)
<i>rbuf-alloc</i>	(Optional)
<i>rbuf-high-water</i>	(Optional)
<i>rbuf-max</i>	(Optional)
<i>rbuf-numalloc</i>	(Optional)
<i>slbs-alloc</i>	(Optional)
<i>slbs-high-water</i>	(Optional)
<i>slbs-max</i>	(Optional)
<i>slbs-numalloc</i>	(Optional)

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

**Command Mode**

- /exec

## show routing multicast clients

```
show routing [ ip | ipv4 ] multicast clients [ <client-name> ] [ detail ] [ __readonly__ { TABLE_mpib
<mpib_name> <mpib_index> <mpib_pid> <mpib_mts_sap> <mpib_shm> <stale_timer> <join_notify>
<prune_notify> <rpf_notify> <delete_notify> <repopulate_notify> <zero-oif-notify> <non-zero-oif-notify>
<attach_notify> <non-attach_notify> <static_notify> <non-static_notify> <internal_notify>
<non-internal_notify><external_notify><non-external_notify> <otv-decap_notify>
<no-otv-decap_notify><vxlan-decap_notify> <no-vxlan-decap_notify>
<mdt-encap_notify><no-mdt-encap_notify> <mdt-decap_notify> <no-mdt-decap_notify><vpc-svi_notify>
<notification_pending> [ <ssm_owner> <bidir_owner> <static_owner> <shared_only_owner>
<locally_joined_owner> <external_owner> <mdt_owner> <fabric_owner> <sticky_iif_owner>
<data_created_owner> <internal_owner> <prune_owner> <attached_owner> <otv_decap_owner>
<vxlan_decap_owner> <secondary_owner> <encap_index_owner> <force_punt_owner> <multi_route_owner>
<register_stop_owner> ] <notify_sent> <notify_fail> <notify_ack_rcvd> <add_route_req_rcvd>
<add_route_ack_sent> <add_route_ack_fail> <delete_route_req_rcvd> <delete_route_ack_sent>
<delete_route_ack_fail> <update_route_req_rcvd> <update_route_ack_sent> <update_route_ack_fail>
<update_mdt_info_req_rcvd> <update_mdt_info_ack_sent> <update_mdt_info_ack_fail>
<mts_update_route_req_rcvd> <mts_update_route_ack_sent> <mts_update_route_ack_fail>
<force_update_rcvd> <notify_member_count> <pending_mpib> <uptime> } ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information
clients	Display multicast routing client information
<i>client-name</i>	(Optional) Multicast routing client name
detail	(Optional) Display detailed route attributes
<i>__readonly__</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib_name</i>	(Optional)
<i>mpib_index</i>	(Optional)
<i>mpib_pid</i>	(Optional)
<i>mpib_mts_sap</i>	(Optional)
<i>mpib_shm</i>	(Optional)
<i>stale_timer</i>	(Optional)

<i>join_notify</i>	(Optional)
<i>prune_notify</i>	(Optional)
<i>rpf_notify</i>	(Optional)
<i>delete_notify</i>	(Optional)
<i>repopulate_notify</i>	(Optional)
<i>zero-oif-notify</i>	(Optional)
<i>non-zero-oif-notify</i>	(Optional)
<i>attach-notify</i>	(Optional)
<i>non-attach-notify</i>	(Optional)
<i>static-notify</i>	(Optional)
<i>non-static-notify</i>	(Optional)
<i>internal-notify</i>	(Optional)
<i>otv-decap-notify</i>	(Optional)
<i>no-vxlan-decap-notify</i>	(Optional)
<i>mdt-decap-notify</i>	(Optional)
<i>notification_pending</i>	(Optional)
<i>ssm_owner</i>	(Optional)
<i>bidir_owner</i>	(Optional)
<i>static_owner</i>	(Optional)
<i>shared_only_owner</i>	(Optional)
<i>locally_joined_owner</i>	(Optional)
<i>external_owner</i>	(Optional)
<i>mdt_owner</i>	(Optional)
<i>fabric_owner</i>	(Optional)
<i>sticky_iif_owner</i>	(Optional)
<i>data_created_owner</i>	(Optional)
<i>internal_owner</i>	(Optional)
<i>prune_owner</i>	(Optional)
<i>attached_owner</i>	(Optional)

<i>otv_decap_owner</i>	(Optional)
<i>vlan_decap_owner</i>	(Optional)
<i>secondary_owner</i>	(Optional)
<i>encap_index_owner</i>	(Optional)
<i>force_punt_owner</i>	(Optional)
<i>multi_route_owner</i>	(Optional)
<i>register_stop_owner</i>	(Optional)
<i>notify_sent</i>	(Optional)
<i>notify_fail</i>	(Optional)
<i>notify_ack_rcvd</i>	(Optional)
<i>add_route_req_rcvd</i>	(Optional)
<i>add_route_ack_sent</i>	(Optional)
<i>add_route_ack_fail</i>	(Optional)
<i>delete_route_req_rcvd</i>	(Optional)
<i>delete_route_ack_sent</i>	(Optional)
<i>delete_route_ack_fail</i>	(Optional)
<i>update_route_req_rcvd</i>	(Optional)
<i>update_route_ack_sent</i>	(Optional)
<i>update_route_ack_fail</i>	(Optional)
<i>update_mdt_info_req_rcvd</i>	(Optional)
<i>update_mdt_info_ack_sent</i>	(Optional)
<i>update_mdt_info_ack_fail</i>	(Optional)
<i>mts_update_route_req_rcvd</i>	(Optional)
<i>mts_update_route_ack_sent</i>	(Optional)
<i>mts_update_route_ack_fail</i>	(Optional)
<i>force_update_rcvd</i>	(Optional)
<i>notify_member_count</i>	(Optional)
<i>pending_mpib</i>	(Optional)
<i>uptime</i>	(Optional)

**Command Mode**

- /exec



# show routing multicast lisp encap

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

## Syntax Description

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

## Command Mode

- /exec

## show routing multicast mdt encapsulation

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

### Syntax Description

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

### Command Mode

- /exec

## show routing multicast memory estimate

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

### Syntax Description

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

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

**Command Mode**

- /exec

# show routing nhlfe

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

## Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>topology-name</i>	(Optional) topology name
nhlfe	Display URIB NHLFE db
stats	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>nhlfe-owner</i>	(Optional)
<i>nhlfe-refcount</i>	(Optional)
TABLE_nhlable	(Optional)
<i>nhlable-index</i>	(Optional)
<i>nh-label</i>	(Optional)
<i>nhlfe-is-vpn</i>	(Optional)
<i>nhlfe-owner-index</i>	(Optional)

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

**Command Mode**

- /exec

## show routing recursive-next-hop

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

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
recursive-next-hop	Display recursive next-hop table
<i>topology-name</i>	(Optional) topology name
<i>ip-addr</i>	(Optional) Display single recursive virtual next-hop
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional) Address type
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>clientname</i>	(Optional)

**Command Mode**

- /exec



## show routing vxlan-hash peer-ip

```
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip> <inner-dst-ip>
] [ <inner-src-ip6> <inner-dst-ip6> ] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port> ] [ module
<module-id> ]
```

### Syntax Description

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

### Command Mode

- /exec

## show routing vxlan-hash peer-ipv6

```
show routing vxlan-hash peer-ipv6 <peer-ipv6> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip>
<inner-dst-ip> ] [ <inner-src-ip6> <inner-dst-ip6> ] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port>
] [ module <module-id> ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vxlan-hash	Display load-balancing information for vxlan
peer-ipv6	Peer IPv6 address
<i>inner-src-mac</i>	Inner Source MAC Address
<i>inner-dst-mac</i>	Inner Destination MAC Address
<i>inner-src-ip</i>	(Optional) Inner Source IP
<i>inner-dst-ip</i>	(Optional) Inner Destination IP
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
<i>inner-src-port</i>	(Optional) Inner Source-port
<i>inner-dst-port</i>	(Optional) Inner Destination-port
module	(Optional) Module
<i>module-id</i>	(Optional) Module

### Command Mode

- /exec

# show running-config

show running-config

## Syntax Description

show	Show running system information
running-config	Current operating configuration

## Command Mode

- /exec

# show running-config aaa

show running-config aaa [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config acllog

show running-config acllog [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config aclmgr

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config adjmgr

show running-config adjmgr [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config all

show running-config all

## Syntax Description

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

## Command Mode

- /exec



# show running-config arp

show running-config arp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config assoc

show running-config assoc [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config backup

show running-config { backup | flexlink } [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
backup	Show running config for Switchport Backup
flexlink	Show running config for Switchport Backup
all	(Optional) Show config with defaults

## Command Mode

- /exec

# show running-config bfd

show running-config bfd [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config bgp

show running-config bgp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config bloggerd

show running-config bloggerd [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config callhome

show running-config callhome [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config catena

show running-config catena

## Syntax Description

show	show running-cfg
running-config	show running system information
catena	catena instances

## Command Mode

- /exec



# show running-config cdp

show running-config cdp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config cert-enroll

show running-config cert-enroll [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config cfs

show running-config cfs [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config clock\_manager

show running-config clock\_manager [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config config-profile

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config config-template

show running-config config-template

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
config-template	Display config-template configuration

## Command Mode

- /exec

# show running-config controller

show running-config controller

## Syntax Description

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

## Command Mode

- /exec

# show running-config copp

show running-config copp [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config dhcp

show running-config dhcp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config diagnostic

show running-config diagnostic [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config diff

show running-config diff

## Syntax Description

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

## Command Mode

- /exec

# show running-config dot1x

show running-config dot1x [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config ecp

show running-config ecp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config eem

show running-config eem

## Syntax Description

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

## Command Mode

- /exec

# show running-config eigrp

show running-config eigrp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config eltm

show running-config eltm

## Syntax Description

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

## Command Mode

- /exec



# show running-config evb

show running-config evb [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config exclude

show running-config exclude <feature-list> +

## Syntax Description

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

## Command Mode

- /exec

# show running-config expand-port-profile

show running-config expand-port-profile

## Syntax Description

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

## Command Mode

- /exec

# show running-config fabric forwarding

show running-config fabric forwarding [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config fabric multicast

show running-config fabric multicast [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config fabricpath

show running-config fabricpath [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config fabricpath domain default

show running-config fabricpath domain default [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config fabricpath switch-id

show running-config fabricpath switch-id [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config fabricpath topology

show running-config fabricpath topology [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config fcoe\_mgr

show running-config fcoe\_mgr [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config hardware-telemetry

show running-config hardware-telemetry [ all ]

## Syntax Description

running-config	Current operating configuration
hardware-telemetry	show running config for hardware-telemetry
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config hsrp

show running-config hsrp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config icam

show running-config icam

## Syntax Description

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

## Command Mode

- /exec

# show running-config icmpv6

show running-config icmpv6 [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config igmp

show running-config igmp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config imp

show running-config imp [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config interface

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config interface

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config ip

show running-config ip [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config ipqos

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config ipv6

show running-config ipv6 [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config isis

show running-config isis [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config l3vm

show running-config l3vm [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config ldap

show running-config ldap [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config license

show running-config license [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config lisp

show running-config lisp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config lldp

show running-config lldp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config macsec

show running-config macsec

## Syntax Description

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

## Command Mode

- /exec

# show running-config mmode

show running-config mmode [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config monitor

show running-config monitor [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config mpls static

show running-config mpls static [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config mpls strip

show running-config mpls strip [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config mpls traffic-eng

show running-config mpls traffic-eng [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config msdp

show running-config msdp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config nat

show running-config nat [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config nbm

show running-config nbm

## Syntax Description

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

## Command Mode

- /exec

# show running-config ngoam

show running-config ngoam [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config ntp

show running-config ntp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config nv overlay

show running-config nv overlay [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config nxsdk

show running-config nxsdk [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
nxsdk	NXOS SDK
all	(Optional) Display running config with defaults

## Command Mode

- /exec



# show running-config openflow

show running-config openflow [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config ospf

show running-config ospf [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config ospfv3

show running-config ospfv3 [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config otv-isis

show running-config otv-isis [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config otv

show running-config otv [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config param-list

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config pim

show running-config pim [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config pim6

show running-config pim6 [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config plb-services

show running-config plb-services

## Syntax Description

show	show running-cfg
running-config	show running system information
plb-services	PLB services

## Command Mode

- /exec

# show running-config poe

show running-config poe [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config port-profile

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config port-security

show running-config port-security [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config ptp

show running-config ptp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config radius

show running-config radius [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config rip

show running-config rip [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config routing ip multicast

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

## Syntax Description

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

## Command Mode

- /exec



# show running-config routing ipv6 multicast

show running-config routing ipv6 multicast [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config rpm

show running-config rpm [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config rsvp

show running-config rsvp

## Syntax Description

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

## Command Mode

- /exec

# show running-config scheduler

show running-config scheduler [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
scheduler	Show scheduler config or data
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config section

show running-config section <section>

## Syntax Description

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

## Command Mode

- /exec

# show running-config security

show running-config security [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config segment-routing

show running-config segment-routing [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

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

## Command Mode

- /exec



# show running-config services

show running-config services

## Syntax Description

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

## Command Mode

- /exec

# show running-config sflow

show running-config sflow [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config sla responder

show running-config sla responder

## Syntax Description

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

## Command Mode

- /exec

# show running-config sla sender

show running-config sla sender

## Syntax Description

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

## Command Mode

- /exec

# show running-config sla twamp-server

show running-config sla twamp-server

## Syntax Description

show	show running-cfg
running-config	show running system information
sla	Service Level Agreement (SLA)
twamp-server	Show IPSLA IPPM TWAMP server configuration

## Command Mode

- /exec

# show running-config smart-channel

show running-config smart-channel

## Syntax Description

show	show running-cfg
running-config	show running system information
smart-channel	smart channel services

## Command Mode

- /exec

# show running-config snmp

show running-config snmp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config spanning-tree

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

## Syntax Description

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

## Command Mode

- /exec



# show running-config srte

show running-config srte

## Syntax Description

show	Show running system information
running-config	Current operating configuration
srte	SRTE

## Command Mode

- /exec

# show running-config switch

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config tacacs

show running-config tacacs + [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config telemetry

show running-config telemetry [ all ]

## Syntax Description

show	show running system configuration
running-config	Current operating configuration
telemetry	Display telemetry configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config track

show running-config track [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config udd

show running-config udd [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config vdc-all

show running-config vdc-all [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config vdc

show running-config vdc [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config virtual-service

show running-config virtual-service

## Syntax Description

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

## Command Mode

- /exec

# show running-config vlan

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config vlan

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config vlan

show running-config vlan

## Syntax Description

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

## Command Mode

- /exec

# show running-config vmtracker

show running-config vmtracker [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config vpc

show running-config vpc [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config vrf

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

## Syntax Description

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

## Command Mode

- /exec

# show running-config vrf default

show running-config vrf default [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show running-config vrrp

show running-config vrrp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config vrrpv3

show running-config vrrpv3 [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config vshd

show running-config vshd

## Syntax Description

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

## Command Mode

- /exec

# show running-config vtp

show running-config vtp [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show running-config wwnm

show running-config wwnm

## Syntax Description

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

## Command Mode

- /exec

show running-config wwnm



## S Show Commands

---

- [show san-port-channel compatibility-parameters](#), on page 2299
- [show san-port-channel consistency](#), on page 2300
- [show san-port-channel consistency detail](#), on page 2301
- [show san-port-channel database](#), on page 2303
- [show san-port-channel summary](#), on page 2305
- [show san-port-channel usage](#), on page 2306
- [show scheduler config](#), on page 2307
- [show scheduler job](#), on page 2309
- [show scheduler logfile](#), on page 2310
- [show scheduler schedule](#), on page 2311
- [show segment-routing](#), on page 2312
- [show segment-routing clients](#), on page 2313
- [show segment-routing ipv4 connected-prefix-sid-map](#), on page 2314
- [show segment-routing mpls](#), on page 2315
- [show segment-routing mpls clients](#), on page 2316
- [show segment-routing mpls ipv4 connected-prefix-sid-map](#), on page 2317
- [show sflow](#), on page 2318
- [show sflow statistics](#), on page 2319
- [show smart-channel](#), on page 2320
- [show snapshots](#), on page 2324
- [show snapshots compare](#), on page 2325
- [show snapshots compare ipv4routes](#), on page 2327
- [show snapshots compare ipv6routes](#), on page 2328
- [show snapshots compare summary](#), on page 2329
- [show snapshots dump](#), on page 2330
- [show snapshots dump](#), on page 2331
- [show snapshots sections](#), on page 2332
- [show snmp](#), on page 2333
- [show snmp community](#), on page 2336
- [show snmp context](#), on page 2337
- [show snmp engineID](#), on page 2338
- [show snmp group](#), on page 2339
- [show snmp host](#), on page 2340

- [show snmp mib igmpCacheTable](#), on page 2341
- [show snmp mib igmpInterfaceTable](#), on page 2342
- [show snmp nms-statistics](#), on page 2344
- [show snmp oid-statistics](#), on page 2345
- [show snmp sessions](#), on page 2346
- [show snmp source-interface](#), on page 2347
- [show snmp trap](#), on page 2348
- [show snmp user](#), on page 2349
- [show sockets client](#), on page 2350
- [show sockets connection](#), on page 2358
- [show sockets local-port-range](#), on page 2361
- [show sockets ns-port-kiosk](#), on page 2362
- [show sockets statistics](#), on page 2363
- [show sockets tcp keychain binding](#), on page 2373
- [show spanning-tree](#), on page 2374
- [show spanning-tree blockedports](#), on page 2378
- [show spanning-tree bridge](#), on page 2379
- [show spanning-tree inconsistentports](#), on page 2381
- [show spanning-tree interface](#), on page 2382
- [show spanning-tree interface](#), on page 2385
- [show spanning-tree issu-impact](#), on page 2386
- [show spanning-tree mst](#), on page 2387
- [show spanning-tree mst configuration](#), on page 2392
- [show spanning-tree mst configuration digest](#), on page 2393
- [show spanning-tree mst interface](#), on page 2394
- [show spanning-tree pathcost method](#), on page 2397
- [show spanning-tree root](#), on page 2398
- [show spanning-tree summary](#), on page 2400
- [show spanning-tree summary totals](#), on page 2403
- [show srte pce ipv4 peer](#), on page 2405
- [show srte policy](#), on page 2406
- [show srte policy fh](#), on page 2408
- [show ssh key](#), on page 2409
- [show ssh server](#), on page 2410
- [show ssx details](#), on page 2411
- [show ssx exporter](#), on page 2412
- [show ssx monitor](#), on page 2413
- [show ssx record](#), on page 2414
- [show startup-config](#), on page 2415
- [show startup-config aaa](#), on page 2416
- [show startup-config acllog](#), on page 2417
- [show startup-config aclmgr](#), on page 2418
- [show startup-config adjmgr](#), on page 2419
- [show startup-config arp](#), on page 2420
- [show startup-config assoc](#), on page 2421
- [show startup-config backup](#), on page 2422



- [show startup-config bfd](#), on page 2423
- [show startup-config bgp](#), on page 2424
- [show startup-config bloggerd](#), on page 2425
- [show startup-config callhome](#), on page 2426
- [show startup-config catena](#), on page 2427
- [show startup-config cdp](#), on page 2428
- [show startup-config cert-enroll](#), on page 2429
- [show startup-config cfs](#), on page 2430
- [show startup-config config-profile](#), on page 2431
- [show startup-config copp](#), on page 2432
- [show startup-config dhcp](#), on page 2433
- [show startup-config diagnostic](#), on page 2434
- [show startup-config dot1x](#), on page 2435
- [show startup-config ecp](#), on page 2436
- [show startup-config eem](#), on page 2437
- [show startup-config eigrp](#), on page 2438
- [show startup-config eltm](#), on page 2439
- [show startup-config evb](#), on page 2440
- [show startup-config exclude](#), on page 2441
- [show startup-config expand-port-profile](#), on page 2442
- [show startup-config fabric forwarding](#), on page 2443
- [show startup-config fabric multicast](#), on page 2444
- [show startup-config fabricpath](#), on page 2445
- [show startup-config fabricpath domain default](#), on page 2446
- [show startup-config fabricpath switch-id](#), on page 2447
- [show startup-config fabricpath topology](#), on page 2448
- [show startup-config fcoe\\_mgr](#), on page 2449
- [show startup-config glbp](#), on page 2450
- [show startup-config hardware-telemetry](#), on page 2451
- [show startup-config hsrp](#), on page 2452
- [show startup-config icam](#), on page 2453
- [show startup-config icmpv6](#), on page 2454
- [show startup-config igmp](#), on page 2455
- [show startup-config imp](#), on page 2456
- [show startup-config interface](#), on page 2457
- [show startup-config interface](#), on page 2458
- [show startup-config ip](#), on page 2459
- [show startup-config ipqos](#), on page 2460
- [show startup-config ipv6](#), on page 2461
- [show startup-config isis](#), on page 2462
- [show startup-config l3vm](#), on page 2463
- [show startup-config ldap](#), on page 2464
- [show startup-config license](#), on page 2465
- [show startup-config lisp](#), on page 2466
- [show startup-config lldp](#), on page 2467
- [show startup-config log](#), on page 2468

- [show startup-config macsec](#), on page 2469
- [show startup-config mmode](#), on page 2470
- [show startup-config monitor](#), on page 2471
- [show startup-config mpls static](#), on page 2472
- [show startup-config mpls strip](#), on page 2473
- [show startup-config mpls traffic-eng](#), on page 2474
- [show startup-config msdp](#), on page 2475
- [show startup-config nat](#), on page 2476
- [show startup-config nbm](#), on page 2477
- [show startup-config ngoam](#), on page 2478
- [show startup-config ntp](#), on page 2479
- [show startup-config nv overlay](#), on page 2480
- [show startup-config nxsdk](#), on page 2481
- [show startup-config openflow](#), on page 2482
- [show startup-config ospf](#), on page 2483
- [show startup-config ospfv3](#), on page 2484
- [show startup-config otv-isis](#), on page 2485
- [show startup-config otv](#), on page 2486
- [show startup-config param-list](#), on page 2487
- [show startup-config pim](#), on page 2488
- [show startup-config pim6](#), on page 2489
- [show startup-config plb-services](#), on page 2490
- [show startup-config poe](#), on page 2491
- [show startup-config port-profile](#), on page 2492
- [show startup-config port-security](#), on page 2493
- [show startup-config ptp](#), on page 2494
- [show startup-config radius](#), on page 2495
- [show startup-config rip](#), on page 2496
- [show startup-config routing ip multicast](#), on page 2497
- [show startup-config routing ipv6 multicast](#), on page 2498
- [show startup-config rpm](#), on page 2499
- [show startup-config rsvp](#), on page 2500
- [show startup-config scheduler](#), on page 2501
- [show startup-config security](#), on page 2502
- [show startup-config segment-routing](#), on page 2503
- [show startup-config services](#), on page 2504
- [show startup-config sflow](#), on page 2505
- [show startup-config sla responder](#), on page 2506
- [show startup-config sla sender](#), on page 2507
- [show startup-config sla twamp-server](#), on page 2508
- [show startup-config smart-channel](#), on page 2509
- [show startup-config snmp](#), on page 2510
- [show startup-config srte](#), on page 2511
- [show startup-config switch](#), on page 2512
- [show startup-config tacacs](#), on page 2513
- [show startup-config telemetry](#), on page 2514

- [show startup-config track](#), on page 2515
- [show startup-config udld](#), on page 2516
- [show startup-config vdc-all](#), on page 2517
- [show startup-config vdc](#), on page 2518
- [show startup-config virtual-service](#), on page 2519
- [show startup-config vlan](#), on page 2520
- [show startup-config vlan](#), on page 2521
- [show startup-config vmtracker](#), on page 2522
- [show startup-config vpc](#), on page 2523
- [show startup-config vrf](#), on page 2524
- [show startup-config vrf default](#), on page 2525
- [show startup-config vrrpv3](#), on page 2526
- [show startup-config vshd](#), on page 2527
- [show startup-config vtp](#), on page 2528
- [show startup-config wwnm](#), on page 2529
- [show summary](#), on page 2530
- [show switch-profile](#), on page 2531
- [show switch-profile](#), on page 2532
- [show switch-profile buffer](#), on page 2534
- [show switch-profile peer](#), on page 2535
- [show switch-profile status](#), on page 2536
- [show switch-scope controller](#), on page 2538
- [show switching-mode](#), on page 2539
- [show switching-mode fabric-speed](#), on page 2540
- [show system acl](#), on page 2541
- [show system auto-collect tech-support](#), on page 2542
- [show system boottime](#), on page 2543
- [show system config reload-pending](#), on page 2544
- [show system cores](#), on page 2545
- [show system default switchport](#), on page 2546
- [show system error-id](#), on page 2547
- [show system exception-info](#), on page 2548
- [show system fast-reload stabilization-timer](#), on page 2549
- [show system image-verification](#), on page 2550
- [show system inband queuing statistics](#), on page 2551
- [show system inband queuing status](#), on page 2553
- [show system login](#), on page 2554
- [show system login failures](#), on page 2555
- [show system memory-thresholds](#), on page 2556
- [show system mode](#), on page 2557
- [show system poap](#), on page 2558
- [show system pss shrink status](#), on page 2559
- [show system redundancy ha status](#), on page 2560
- [show system redundancy status](#), on page 2561
- [show system reset-reason](#), on page 2562
- [show system reset-reason](#), on page 2563

- [show system reset-reason module](#), on page 2564
- [show system resources](#), on page 2565
- [show system resources all-modules](#), on page 2566
- [show system routing mode](#), on page 2568
- [show system security](#), on page 2569
- [show system standby manual-boot](#), on page 2570
- [show system switch-mode](#), on page 2571
- [show system uptime](#), on page 2572
- [show system verify bios flash](#), on page 2573
- [show system vlan reserved](#), on page 2574

# show san-port-channel compatibility-parameters

```
show san-port-channel compatibility-parameters [ __readonly__ [ { TABLE_compatibility_params <parameter>
<description> } ] ]
```

## Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
compatibility-parameters	Show san-port-channel compatibility-parameters
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_compatibility_params</i>	(Optional) Table with compatibility params
<i>parameter</i>	(Optional) Compatibility parameter
<i>description</i>	(Optional) Parameter description

## Command Mode

- /exec

## show san-port-channel consistency

```
show san-port-channel consistency [ __readonly__ [ <msg> ] [ { [ <error_msg> ] [ <consistency_state> ] [
<module> ] [ { TABLE_inconsistent_database [ <database> ] [ { [ <total_port_channels> ] [ {
TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ {
TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> } ] } ] } ] } ] }
```

### Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
consistency	Show san-port-channel distributed database consistency
<i>__readonly__</i>	(Optional) Read Only
<i>msg</i>	(Optional) Message string
<i>error_msg</i>	(Optional) Prints consistency errors, if any
<i>consistency_state</i>	(Optional) Consistency state
<i>module</i>	(Optional) Module no
TABLE_inconsistent_database	(Optional) Table with details of inconsistent dbs
<i>database</i>	(Optional) Inconsistent database
TABLE_san_port_channel_database	(Optional) san-po Table
<i>total_port_channels</i>	(Optional) Total port channels
<i>interface</i>	(Optional) san-port-channel interface
<i>first_operational_port</i>	(Optional) First oper port in san-po
<i>total_ports</i>	(Optional) Total number of ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>db_error_str</i>	(Optional) prints cmd errors, if any

### Command Mode

- /exec

## show san-port-channel consistency detail

```
show san-port-channel consistency detail [ __readonly__ [ <sup_total_port_channels> ] [ { [ <sup_db_error_str> ] [ { TABLE_sup_san_port_channel_database <sup_interface> [ <sup_total_ports> ] [ <sup_first_operational_port> ] [ { TABLE_sup_san_port_channel_member <sup_port> <sup_state> } ] } ] } ] [ <msg> ] [ { [ <error_msg> ] [ <db_index> ] [ <module> ] [ { [ <total_port_channels> ] [ { TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ { TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> ] } ] } ] } ] [ <consistency_state> ] ]
```

### Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
consistency	Show san-port-channel distributed database consistency
detail	Show san-port-channel distributed databases of all modules
__readonly__	(Optional) Read Only
sup_total_port_channels	(Optional) Authoritative po db - Total POs
TABLE_sup_san_port_channel_database	(Optional) Table with details of auth po db
sup_interface	(Optional) san-port-channel interface
sup_first_operational_port	(Optional) First oper port in san-po
sup_total_ports	(Optional) Total number of ports in the san-po
TABLE_sup_san_port_channel_member	(Optional) san-po member Table
sup_port	(Optional) san-po member port
sup_state	(Optional) san-po member port state
sup_db_error_str	(Optional) prints cmd errors, if any
msg	(Optional) Msg string
error_msg	(Optional) Prints errors, if any
db_index	(Optional) Database index
module	(Optional) Module no
total_port_channels	(Optional) Authoritative po db - Total POs
TABLE_san_port_channel_database	(Optional) Table with details of auth po db
interface	(Optional) san-port-channel interface
first_operational_port	(Optional) First oper port in san-po

<i>total_ports</i>	(Optional) Total number of ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>db_error_str</i>	(Optional) prints cmd errors, if any
<i>consistency_state</i>	(Optional) Consistency state

**Command Mode**

- /exec



## show san-port-channel database

```
show san-port-channel database [ interface <ifid> | all ] [ __readonly__ [ <error_str> ] [ {
TABLE_san_port_channel_database <interface> <admin_chan_mode> <oper_chan_mode>
<last_membership_update> [ <last_membership_update_fail_reason> ] [ <pcm_interface_flag> ] [
<vlan_interfaces> ] [ <first_operational_port> ] [ <total_ports> ] [ <total_oper_ports> ] [ {
TABLE_san_port_channel_member <port> <state> } } ] [ <cmd_error_str> ] ]
```

### Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
database	Show san-port-channel database
interface	(Optional) Specify a port-channel
<i>ifid</i>	(Optional)
all	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional) Read Only
<i>error_str</i>	(Optional) Prints errors,if any
TABLE_san_port_channel_database	(Optional) san-port-channel database Table
<i>interface</i>	(Optional) san-po Interface
<i>admin_chan_mode</i>	(Optional) san-po administrative channel mode
<i>oper_chan_mode</i>	(Optional) san-po operational channel mode
<i>last_membership_update</i>	(Optional) Last membership update status
<i>last_membership_update_fail_reason</i>	(Optional) Membership update status casue
<i>pcm_interface_flag</i>	(Optional) san-po interface flag
<i>vlan_interfaces</i>	(Optional) san-po vlan interfaces
<i>first_operational_port</i>	(Optional) First oper port in san-po
<i>total_ports</i>	(Optional) Total number of ports in the san-po
<i>total_oper_ports</i>	(Optional) Total oper ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>cmd_error_str</i>	(Optional) prints cmd errors,if any

**Command Mode**

- /exec

# show san-port-channel summary

```
show san-port-channel summary [ __readonly__ [ { TABLE_san_port_channel_summary <interface>
<total_ports> <total_oper_ports> <first_operational_port> } ] [ <cmd_error_str> ] ]
```

## Syntax Description

<code>show</code>	Show running system information
<code>san-port-channel</code>	Show san-port-channel information
<code>summary</code>	Show san-port-channel summary
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_san_port_channel_summary</code>	(Optional) san-port-channel Summary Table
<code>interface</code>	(Optional) san-po Interface
<code>total_ports</code>	(Optional) Total number of ports in the san-po
<code>total_oper_ports</code>	(Optional) Total oper ports in the san-po
<code>first_operational_port</code>	(Optional) First oper port in san-po
<code>cmd_error_str</code>	(Optional) Prints cmd error,if any

## Command Mode

- /exec

## show san-port-channel usage

```
show san-port-channel usage [ __readonly__ [ <total_channel_numbers_used> { <used_range> } + {
<unused_range> } + ] [ <error_str> ] ]
```

### Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
usage	Show san-port-channel usages
<i>__readonly__</i>	(Optional) Read Only
<i>total_channel_numbers_used</i>	(Optional) Total used number of port-channels
<i>used_range</i>	(Optional) Used range
<i>unused_range</i>	(Optional) Un-used range
<i>error_str</i>	(Optional) Prints error if any

### Command Mode

- /exec

## show scheduler config

```
show scheduler config [ __readonly__ [ <terminal> ] [ <feature> ] [ <logfilesize> ] [ <emailfrom> ] [
<emailreplyto> ] [ <smtpserver> ] [ <port> ] [ <usevrf> ] [ { TABLE_userconfig <username> [ <password>
} ] ] [ { TABLE_jobconfig <jobdata> } ] [ { TABLE_scheduleconfig <schedulename> [ <scheduletype> ] [
{ TABLE_jobs <status> } ] [ <email> } ] ] ]
```

### Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
config	Display scheduler config
<i>__readonly__</i>	(Optional)
<i>terminal</i>	(Optional) logfile terminal
<i>feature</i>	(Optional) name service
<i>logfilesize</i>	(Optional) logfilesize
<i>emailfrom</i>	(Optional) emailfrom
<i>emailreplyto</i>	(Optional) emailreplyto
<i>smtpserver</i>	(Optional) smtpserver
<i>port</i>	(Optional) port
<i>usevrf</i>	(Optional) usevrf
TABLE_userconfig	(Optional) userconfig
<i>username</i>	(Optional) username
<i>password</i>	(Optional) password
TABLE_jobconfig	(Optional) job configs
<i>jobdata</i>	(Optional) jobdata
TABLE_scheduleconfig	(Optional) schedule configs
<i>schedulename</i>	(Optional) schedulename
<i>scheduletype</i>	(Optional) scheduletype
TABLE_jobs	(Optional) jobs
<i>status</i>	(Optional) status
<i>email</i>	(Optional) email

### 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
<i>__readonly__</i>	(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
<i>__readonly__</i>	(Optional)
<i>TABLE_joblog</i>	(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 scheduler schedule

```
show scheduler schedule [ name <s0> ] [ __readonly__ [ { TABLE_schedules <schedulename> [
<scheduleusername> ] [ <scheduletype> ] [ <starttime> ] [ <lastexecetime> ] [ <lastcompletiontime> ] [
<execcount> ] [ <jobcount> ] [ { TABLE_jobs <jobname> [ <execstatus> ] } } ] ] ]
```

## Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
schedule	Display schedule information
name	(Optional) Specify the name of schedule
<i>s0</i>	(Optional) Specify the schedule name
<i>__readonly__</i>	(Optional)
TABLE_schedules	(Optional) schedules
<i>schedulename</i>	(Optional) Schedule name
<i>scheduleusername</i>	(Optional) schedule username
<i>scheduletype</i>	(Optional) scheduletype
<i>starttime</i>	(Optional) starttime
<i>lastexecetime</i>	(Optional) last exec time
<i>lastcompletiontime</i>	(Optional) lastcompletiontime
<i>execcount</i>	(Optional) execcount
<i>jobcount</i>	(Optional) jobcount
TABLE_jobs	(Optional) jobs
<i>jobname</i>	(Optional) jobname
<i>execstatus</i>	(Optional) execstatus

## 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	Show 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	Show segment-routing status info
clients	Show 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	Show segment-routing status info
ipv4	Show info for IPv4 address-family
connected-prefix-sid-map	Show 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 segment-routing mpls

```
show segment-routing mpls [ 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	Show segment-routing status info
mpls	Show segment-routing mpls 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 mpls clients

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

### Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
mpls	Show segment-routing mpls info
clients	Show client info
<i>__readonly__</i>	(Optional)
<i>TABLE_client</i>	(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
<i>TABLE_tib</i>	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>tib_name</i>	(Optional) Table name
<i>pxsid_cleanup_status</i>	(Optional) Prefixsid Cleanup Pending?
<i>total_clients</i>	(Optional) Total number of clients

### Command Mode

- /exec

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

```
show segment-routing mpls 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	Show segment-routing status info
mpls	Show segment-routing mpls info
ipv4	Show info for IPv4 address-family
connected-prefix-sid-map	Show 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-vrf> <collector-ip> [ <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-vrf</i>	(Optional) Collector VRF
<i>collector-ip</i>	(Optional) Collector IP
<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

```
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 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 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 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> [ <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
<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 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>
] [ <iocctl-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> ] [ <iocctl-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-iov> ] [ <psend-getsoc-err> ] [ <psend-msg-ctrl-err> ] [
<psend-sockarg-err> ] [ <psend-pru-sosend> ] [ <precv-nosock-err> ] [ <precv-inval-iovlen> ] [
<precv-pru-sorecv> ] [ <precv-cp-msg-err> ] [ <precv-cp-msg-nlen> ] [ <precv-cp-data-err> ] [
<pbrecv-rcvmmsg-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> ] [ <pdup-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-sock-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-ival-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-ival-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>ft-tcp-wblock</i>	(Optional) fast tcp send would block error
<i>ft-send-p-sndmsg</i>	(Optional) fast tcp send p_sendmsg errors
<i>ft-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_sockets <protocol> [ <total-conn-count> ] [ { TABLE_conn <afi> [ <laddr> ] [ <lport> ] [ <faddr> ] [ <fport> ] [ <prot> ] [ <type> ] [ <ttl> ] [ <tos> ] [ <options> ] [ <state> ] [ <rcv-count> ] [ <rcv-hiwat> ] [ <rcv-lowat> ] [ <rcv-flags> ] [ <snd-count> ] [ <snd-hiwat> ] [ <snd-lowat> ] [ <snd-flags> ] [ <iss> ] [ <snd-una> ] [ <snd-nxt> ] [ <snd_wnd> ] [ <irs> ] [ <rcv-nxt> ] [ <rcv-wnd> ] [ <snd-cwnd> ] [ <ooo_pkt_rcv> ] [ <ooo_pkt_drpd> ] [ <ooo_pkt_rqc> ] [ <srtt> ] [ <rtt> ] [ <rttvar> ] [ <krtt> ] [ <rttmin> ] [ <mss> ] [ <dur> ] [ <tcp-state> ] [ <flags> ] [ <md5-cnt> ] [ <md5-host> ] [ <md5-err> ] [ <tcp-count> ] [ <udp-count> ] [ <raw-count> ] [ <vrf-name> ] [ <intf> } ] } ] ]
```

### 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	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_sockets	(Optional) sockets table
<i>protocol</i>	(Optional) socket protocol
<i>total-conn-count</i>	(Optional) socket connection table
TABLE_conn	(Optional)
<i>afi</i>	(Optional) socket family



<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>vrf-name</i>	(Optional) socket vrf name
<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>ooo_pkt_rcv</i>	(Optional) socket connection out-of-order packet received
<i>ooo_pkt_drpd</i>	(Optional) socket connection out-of-order packet dropped
<i>ooo_pkt_rqc</i>	(Optional) socket connection out-of-order reassembly queue count
<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-hiwat</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-hiwat</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 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> <nat_local_port_range_start>
<nat_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
<i>nat_local_port_range_start</i>	(Optional) Nat local port range start
<i>nat_local_port_range_end</i>	(Optional) Nat local port range end

### Command Mode

- /exec

## show sockets ns-port-kiosk

```
show sockets ns-port-kiosk [ __readonly__ [ TABLE_port_kiosk { <client-process-id> <client-name> } [
TABLE_port_state_pro_name { <entry-counter> [ <listening-port> ] [ <fwd-port> ] [ <tcp-state> ] [ <mts-sap>
] [ <protocol-name> ] } ] ] ]
```

### Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
ns-port-kiosk	Display port kiosk for netstack socket clients
<i>__readonly__</i>	(Optional)
<i>TABLE_port_kiosk</i>	(Optional) Sockets ns port kiosk information
<i>client-process-id</i>	(Optional) Client Process ID
<i>client-name</i>	(Optional) Client Name
<i>TABLE_port_state_pro_name</i>	(Optional) Sockets ns port state protocol information
<i>entry-counter</i>	(Optional) Table Entry Counter
<i>listening-port</i>	(Optional) Listening Port
<i>fwd-port</i>	(Optional) FWD Port
<i>tcp-state</i>	(Optional) TCP State
<i>mts-sap</i>	(Optional) MTS SAP
<i>protocol-name</i>	(Optional) Protocol Name

### 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-oo-drop-cnt> ] [ <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-recv> ] [ <rx-pkt-too-short> ] [ <rx-sin-finest>
] [ <rx-black-hole-syn> ] [ <rx-black-hole> ] [ <rx-drop-no-inpcb> ] [ <rx-drop-notpcb> ] [
<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-csent> ] [
<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-removecrosshits> ] [ <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-oo-drop-cnt</i>	(Optional) out-of-order drop count
<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-enoio</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 ingress available error
<i>in6pcb-err-ctloutput-nosoopt</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)
TABLE_keychain	(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>bp dus_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> | 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> ] [ <prestd>
] ] } } | { 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> ] [ <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
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 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
<i>__readonly__</i>	(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 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>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>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> {
TABLE_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
TABLE_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> <prest> [
<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> <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
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 srte pce ipv4 peer

```
show srte pce ipv4 peer [ <pce_address> ] [ __readonly__ [ TABLE_peer <pce_address> <pcc_address>
<precedence> <state> ] ]
```

### Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
pce	Show PCC related information
ipv4	Show ipv4 pcc information
peer	Show PCE peers
<i>pce_address</i>	(Optional) PCE address of the peer
<i>__readonly__</i>	(Optional)
TABLE_peer	(Optional) Table with a list of peers
<i>pce_address</i>	(Optional) Address of the PCE
<i>pcc_address</i>	(Optional) Address of the PCC
<i>precedence</i>	(Optional) Configured precedence of the PCE
<i>state</i>	(Optional) State of the PCE connection

### Command Mode

- /exec

## show srte policy

```
show srte policy [ { <policy_name_val> } | { color <color_val> endpoint <end_point_val> } | { policy-id
<policy_id_val> } ] [ holddown ] [ detail ] [ __readonly__ [ TABLE_policy <policy_name> <source>
<end_point> <state> <col> <binding_label> <policy_id> [ <flags> ] [ <holddown_time> ] [ TABLE_pref
<pref> [ TABLE_paths { <exp_path_name> | <deleg_pce_addr> } [ TABLE_index <index> <label> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
policy	Show existing policies
color	(Optional) Show policies with the color
endpoint	(Optional) Show Policies with the destination
<i>end_point_val</i>	(Optional) Endpoint for the policy
<i>policy_name_val</i>	(Optional) Policy name of the policy
<i>color_val</i>	(Optional) Color of the policy
<i>policy_id_val</i>	(Optional) Policy_id of the policy
policy-id	(Optional) Show Policy for the policy-id
holddown	(Optional) Show Policies that are in holddown
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_policy	(Optional) Table with a list of policies
<i>policy_name</i>	(Optional) Unique name for the policy
<i>end_point</i>	(Optional) Endpoint for the policy
<i>source</i>	(Optional) Source address of the policy
<i>state</i>	(Optional) State of the policy
<i>col</i>	(Optional) Color of the policy
<i>binding_label</i>	(Optional) Binding label of the policy
<i>policy_id</i>	(Optional) Policy ID
<i>flags</i>	(Optional) Policy Flags
<i>holddown_time</i>	(Optional) Time when the policy was put in holddown



TABLE_pref	(Optional) Table with a list of candidate path based on pref
<i>pref</i>	(Optional) Preference for candidate paths
TABLE_paths	(Optional) Table with a list of exp path for pref
<i>exp_path_name</i>	(Optional) Name of the explicit-path
<i>deleg_pce_addr</i>	(Optional) Delegated PCE Address
TABLE_index	(Optional) Table with a list of index for the exp path
<i>index</i>	(Optional) Index for the explicit path
<i>label</i>	(Optional) Label for the explicit path

**Command Mode**

- /exec

# show srte policy fh

```
show srte policy fh [ __readonly__ [ TABLE_fh [ <label> <type> <state> ] [ TABLE_index [ <index>
<ip_addr> <mask_len> ] ] ] ]
```

## Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
policy	Show existing policies
fh	Show existing policies firsthop state
__readonly__	(Optional)
TABLE_fh	(Optional) Table with a list of first hops
<i>label</i>	(Optional) First hop label
<i>type</i>	(Optional) First hop type
<i>state</i>	(Optional) First hop state
TABLE_index	(Optional) Table with index for the first hop
<i>index</i>	(Optional) Index for the first hop
<i>ip_addr</i>	(Optional) Monitored address
<i>mask_len</i>	(Optional) Mask length

## Command Mode

- /exec

# show ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | ecdsa [ [ 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
ecdsa	(Optional) Show ecdsa 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 ssx details

```
show ssx details [ __readonly__ [ TABLE_ssx_details  
<system-id><arp-timer-running><asic-instance><asic-slice><io-srcid> [ <packets-sent> ] ] ]
```

## Syntax Description

ssx	Display SSX information
details	Show SSX details
__readonly__	(Optional) Read Only
TABLE_ssx_details	(Optional) SSX details table

## Command Mode

- /exec

# show ssx exporter

```
show ssx exporter { all | <exportername> } [ __readonly__ [ TABLE_ssx_exporters <exporter-name>
<src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> ] ]
```

## Syntax Description

ssx	Display SSX information
exporter	Show exporter details
all	All sessions
<i>exportername</i>	SSX Exporter to display
<i>__readonly__</i>	(Optional) Read Only
TABLE_ssx_exporters	(Optional) SSX Exporters table

## Command Mode

- /exec

# show ssx monitor

```
show ssx monitor { all | <monitorname> } [ __readonly__ [ TABLE_ssx_monitors <monitor-name>
<globally-applied><status><exportername><recordname> ] ]
```

## Syntax Description

ssx	Display SSX information
monitor	Show monitor details
all	All sessions
<i>monitorname</i>	SSX Monitor to display
__readonly__	(Optional) Read Only
TABLE_ssx_monitors	(Optional) SSX monitors table

## Command Mode

- /exec

# show ssx record

```
show ssx record { all | <recordname> } [ __readonly__ [ TABLE_ssx_records <record-name> [
TABLE_stats_type <stats-type> ] <interval> ] ]
```

## Syntax Description

ssx	Display SSX information
record	Show record details
all	All sessions
<i>recordname</i>	SSX Record to display
__readonly__	(Optional) Read Only
TABLE_ssx_records	(Optional) SSX records table
TABLE_stats_type	(Optional) SSX records stats type table
<i>interval</i>	(Optional) SSX interval

## 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 acllog

show startup-config acllog [ all ]

## Syntax Description

show	Show running system information
startup-config	Displaying the startup configuration
acllog	show startup config for acllog
all	(Optional) show startup config with defaults

## 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 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 assoc

show startup-config assoc [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show startup-config backup

show startup-config { backup | flexlink } [ all ]

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
backup	Show startup config for Switchport Backup
flexlink	Show startup config for Switchport Backup
all	(Optional) Show config with defaults

## 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 system information
startup-config	System startup configuration
catena	startup config for feature CATENA

## 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 dhcp

show startup-config dhcp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
dhcp	Display dhcp snoop configurations
all	(Optional) show running 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 fabricpath

show startup-config fabricpath

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
fabricpath	fabricpath information

## Command Mode

- /exec

# show startup-config fabricpath domain default

show startup-config fabricpath domain default [ all ]

## Syntax Description

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

## Command Mode

- /exec



# show startup-config fabricpath switch-id

show startup-config fabricpath switch-id

## Syntax Description

startup-config	Current startup configuration
fabricpath	fabricpath information
switch-id	fabricpath switch-id configuration

## Command Mode

- /exec

# show startup-config fabricpath topology

show startup-config fabricpath topology [ all ]

## Syntax Description

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

## Command Mode

- /exec

# show startup-config fcoe\_mgr

show startup-config fcoe\_mgr

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
fcoe_mgr	Display fcoe_mgr configuration

## Command Mode

- /exec

# show startup-config glbp

show startup-config glbp

## Syntax Description

show	Show system information
startup-config	System startup configuration
glbp	GLBP startup configuration

## Command Mode

- /exec

# show startup-config hardware-telemetry

show startup-config hardware-telemetry [ all ]

## Syntax Description

show	Show system information
startup-config	Current startup configuration
hardware-telemetry	show startup config for hardware-telemetry
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config hsrp

show startup-config hsrp

## Syntax Description

show	Show system information
startup-config	System startup configuration
hsrp	HSRP startup configuration

## 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 icmpv6

show startup-config icmpv6 [ all ]

## Syntax Description

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

## 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 ipv6

show startup-config ipv6 [ all ]

## Syntax Description

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

## 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 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 strip

show startup-config mpls strip [ all ]

## Syntax Description

show	Show running system information
mpls	MPLS information
strip	Stripping of MPLS headers
startup-config	System startup configuration
all	(Optional) Show startup configuration for STRIPCL 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 nv overlay

show startup-config nv overlay [ all ]

## Syntax Description

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

## 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

show	show system information
startup-config	show startup system information
ptp	Show startup configuration for ptp
all	(Optional) Show startup configuration for PTP 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 routing ip multicast

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

## Syntax Description

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

## Command Mode

- /exec

# show startup-config routing ipv6 multicast

show startup-config routing ipv6 multicast [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information
all	(Optional) Display startup 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 scheduler

show startup-config scheduler [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
scheduler	Show scheduler config or data
all	(Optional) show startup config with defaults

## 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

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

## Command Mode

- /exec

# show startup-config sla responder

show startup-config sla responder

## Syntax Description

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

## Command Mode

- /exec

# show startup-config sla sender

show startup-config sla sender

## Syntax Description

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

## Command Mode

- /exec

# show startup-config sla twamp-server

show startup-config sla twamp-server

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
sla	Service Level Agreement (SLA)
twamp-server	Show information about twamp-server

## 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 srte

show startup-config srte

## Syntax Description

show	Show running system information
startup-config	Current operating configuration
srte	SRTE

## 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 vmtracker

show startup-config vmtracker [ all ]

## Syntax Description

show	Show system information
startup-config	System startup configuration
vmtracker	Show VMTracker configuration
all	(Optional) Show VMTracker config with defaults

## 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 vrrpv3

show startup-config vrrpv3 [ all ]

## Syntax Description

show	Show system information
startup-config	System startup configuration
vrrpv3	VRRPv3 startup configuration
all	(Optional) show startup config of VRRPv3 with defaults

## 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 startup-config wwnm

show startup-config wwnm

## Syntax Description

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

## 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> [ TABLE_commands <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)
TABLE_commands	(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> } {
TABLE_swtpmoduinfo <moduleno> <opmode> } ]
```

## 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
TABLE_swtpmoduinfo	(Optional) the xml switching module information
<i>moduleno</i>	(Optional) Module Number
<i>opmode</i>	(Optional) Operation Mode

## Command Mode

- /exec

# show switching-mode fabric-speed

```
show switching-mode fabric-speed [ __readonly__ TABLE_switching_mode_fabric_speed <fabric-speed-desc> ]
```

## Syntax Description

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

## Command Mode

- /exec

# show system acl

```
show system acl [ __readonly__ TABLE_system_acl <protocol> [ TABLE_type <type> <acl_name> <inout> ] ]
```

## Syntax Description

show	Show running system information
system	System management commands
acl	ACL parameters
__readonly__	(Optional)
TABLE_system_acl	(Optional)
<i>protocol</i>	(Optional) protocol
TABLE_type	(Optional)
<i>type</i>	(Optional) type
<i>acl_name</i>	(Optional)
<i>inout</i>	(Optional) Traffic direction

## 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 boottime

```
show system boottime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup>
<minutesup> <secondsup> } ]
```

## Syntax Description

<code>show</code>	Show running system information
<code>system</code>	System-related show commands
<code>boottime</code>	Show platform boot time of each module
<code>__readonly__</code>	(Optional)
<code>TABLE_uptimeinf</code>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<code>slot</code>	(Optional) Slot
<code>starttime</code>	(Optional) Start Time
<code>daysup</code>	(Optional) Days Up
<code>hoursup</code>	(Optional) Hours Up
<code>minutesup</code>	(Optional) Minutes Up
<code>secondsup</code>	(Optional) Seconds Up

## 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 default switchport

```
show system default switchport [ __readonly__ <sys_def_port_state> <sys_def_trunk_mode>
<sys_def_link_fail_syslog_level> <sys_def_tx_credit_queue_type> ]
```

## Syntax Description

show	Show running system information
<i>__readonly__</i>	(Optional) read only
<i>sys_def_port_state</i>	(Optional) System default port state
<i>sys_def_trunk_mode</i>	(Optional) System default trunk mode
<i>sys_def_link_fail_syslog_level</i>	(Optional) System default link failure syslog logging level
<i>sys_def_tx_credit_queue_type</i>	(Optional) System default tx credit queue type
system	System-related show commands
default	Show system default values
switchport	Show default values for switchport attributes

## 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
__readonly__	(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 image-verification

show system image-verification [ \_\_readonly\_\_ { [ TABLE\_system\_image\_verification <Str1> ] } ]

## Syntax Description

show	Show running system information
system	Show system information
image-verification	image signature verification status
__readonly__	(Optional)
TABLE_system_image_verification	(Optional) table for image verification
<i>Str1</i>	(Optional) status of image verification

## 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> <pmnodrop> } ] [ TABLE_q_stats { <indexstat>
<ipmrcvpkts> <ipmdroppkts> <ipmcongested> <ircvbuf> <isndbuf> <ipmnodrop> } ] ] ]
```

### 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>pmnodrop</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>ipmnodrop</i>	(Optional) Queue no drop

**Command Mode**

- /exec

## show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <pminbandalgo>
<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>pminbandalgo</i>	(Optional) Queuing Algorithm
<i>pminbandweigh0</i>	(Optional) BPDU Weight
<i>pminbandweigh1</i>	(Optional) Q0 Weight
<i>pminbandweigh2</i>	(Optional) Q1 Weight

### 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) Applied 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-enable 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

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

```
show system poap [ __readonly__ { [ TABLE_show_system_poap <Str1> ] } ]
```

## Syntax Description

show	Show running system information
system	Show system information
poap	Show information related to POAP
__readonly__	(Optional)
TABLE_show_system_poap	(Optional) table for poap
<i>Str1</i>	(Optional) status of poap

## 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 <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

```
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 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 [ __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 all-modules

```
show system resources all-modules [ __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
all-modules	Show system resources for all available modules
<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 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
<i>__readonly__</i>	(Optional)
<i>TABLE_system_routing_mode</i>	(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 security

```
show system security [ common-criteria ] [ __readonly__ { [ <common_criteria_o_status> ] } ]
```

## Syntax Description

show	Show running system information
system	System Management commands
security	Security Management commands
common-criteria	(Optional) Show if common-criteria mode is enabled or disabled
__readonly__	(Optional)
<i>common_criteria_o_status</i>	(Optional) operational status of common-criteria

## 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 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





## T Show Commands

---

- [show table-map](#), on page 2581
- [show tacacs-server](#), on page 2582
- [show tacacs-server](#), on page 2583
- [show tacacs-server directed-request](#), on page 2584
- [show tacacs-server groups](#), on page 2585
- [show tacacs-server sorted](#), on page 2586
- [show tacacs-server statistics](#), on page 2587
- [show tech-support](#), on page 2589
- [show tech-support aaa](#), on page 2590
- [show tech-support aclmgr](#), on page 2591
- [show tech-support aclmgr compressed](#), on page 2592
- [show tech-support aclqos](#), on page 2593
- [show tech-support aclqos compressed](#), on page 2594
- [show tech-support adjmgr](#), on page 2595
- [show tech-support all](#), on page 2596
- [show tech-support all binary](#), on page 2597
- [show tech-support analytics](#), on page 2598
- [show tech-support analytics](#), on page 2599
- [show tech-support arp](#), on page 2600
- [show tech-support ascii-cfg](#), on page 2601
- [show tech-support assoc\\_mgr](#), on page 2602
- [show tech-support backup](#), on page 2603
- [show tech-support bfd](#), on page 2604
- [show tech-support bgp](#), on page 2605
- [show tech-support biosd](#), on page 2606
- [show tech-support bloggerd-all](#), on page 2607
- [show tech-support bloggerd](#), on page 2608
- [show tech-support bootvar](#), on page 2609
- [show tech-support brief](#), on page 2610
- [show tech-support callhome](#), on page 2611
- [show tech-support cdp](#), on page 2612
- [show tech-support cert-enroll](#), on page 2613
- [show tech-support cfs](#), on page 2614

- [show tech-support cli](#), on page 2615
- [show tech-support clis](#), on page 2616
- [show tech-support clock\\_manager](#), on page 2617
- [show tech-support commands](#), on page 2618
- [show tech-support controller](#), on page 2619
- [show tech-support copp](#), on page 2620
- [show tech-support dcbx](#), on page 2621
- [show tech-support details](#), on page 2622
- [show tech-support dhclient](#), on page 2623
- [show tech-support dhcp](#), on page 2624
- [show tech-support dme](#), on page 2625
- [show tech-support dot1x](#), on page 2626
- [show tech-support ecp](#), on page 2627
- [show tech-support eem](#), on page 2628
- [show tech-support eigrp](#), on page 2629
- [show tech-support eltm](#), on page 2630
- [show tech-support ethpm](#), on page 2631
- [show tech-support evb](#), on page 2632
- [show tech-support fabric forwarding](#), on page 2633
- [show tech-support fabric multicast](#), on page 2634
- [show tech-support fabricpath isis](#), on page 2635
- [show tech-support fabricpath topology](#), on page 2636
- [show tech-support fast-reload](#), on page 2637
- [show tech-support fc2](#), on page 2638
- [show tech-support fcoe](#), on page 2639
- [show tech-support fips](#), on page 2640
- [show tech-support forwarding l2 multicast](#), on page 2641
- [show tech-support forwarding l2 multicast vdc-all](#), on page 2642
- [show tech-support forwarding l2 unicast](#), on page 2643
- [show tech-support forwarding l3 multicast](#), on page 2644
- [show tech-support forwarding l3 multicast detail](#), on page 2645
- [show tech-support forwarding l3 multicast detail vdc-all](#), on page 2646
- [show tech-support forwarding l3 multicast vdc-all](#), on page 2647
- [show tech-support forwarding l3 unicast](#), on page 2648
- [show tech-support forwarding l3 unicast detail](#), on page 2649
- [show tech-support forwarding l3 unicast detail vdc-all](#), on page 2650
- [show tech-support forwarding l3 unicast vdc-all](#), on page 2651
- [show tech-support forwarding mpls](#), on page 2652
- [show tech-support forwarding multicast](#), on page 2653
- [show tech-support gold](#), on page 2654
- [show tech-support gpixm](#), on page 2655
- [show tech-support ha](#), on page 2656
- [show tech-support ha module](#), on page 2657
- [show tech-support ha\\_short](#), on page 2658
- [show tech-support ha standby](#), on page 2659
- [show tech-support hardware-telemetry](#), on page 2660

- [show tech-support hsrp](#), on page 2661
- [show tech-support hsrp brief](#), on page 2662
- [show tech-support icam](#), on page 2663
- [show tech-support icmpv6](#), on page 2664
- [show tech-support im](#), on page 2665
- [show tech-support imp](#), on page 2666
- [show tech-support inband counters](#), on page 2667
- [show tech-support include-time](#), on page 2668
- [show tech-support install](#), on page 2669
- [show tech-support interface-vlan](#), on page 2670
- [show tech-support ip](#), on page 2671
- [show tech-support ip igmp](#), on page 2672
- [show tech-support ip igmp snooping](#), on page 2673
- [show tech-support ip msdp](#), on page 2674
- [show tech-support ip pim](#), on page 2675
- [show tech-support ipqos](#), on page 2676
- [show tech-support ipv6](#), on page 2677
- [show tech-support ipv6 mld](#), on page 2678
- [show tech-support ipv6 multicast](#), on page 2679
- [show tech-support ipv6 pim](#), on page 2680
- [show tech-support isis](#), on page 2681
- [show tech-support issu](#), on page 2682
- [show tech-support kstack](#), on page 2683
- [show tech-support l2](#), on page 2684
- [show tech-support l2fm](#), on page 2685
- [show tech-support l2fm clients](#), on page 2686
- [show tech-support l2fm detail](#), on page 2687
- [show tech-support l2fm l2dbg](#), on page 2688
- [show tech-support l2fm l2dbg](#), on page 2689
- [show tech-support l2rib](#), on page 2690
- [show tech-support l3vm](#), on page 2691
- [show tech-support l3vpn](#), on page 2692
- [show tech-support lacp](#), on page 2693
- [show tech-support ldap](#), on page 2694
- [show tech-support license](#), on page 2695
- [show tech-support lim](#), on page 2696
- [show tech-support lisp](#), on page 2697
- [show tech-support lldp](#), on page 2698
- [show tech-support logging](#), on page 2699
- [show tech-support m2rib](#), on page 2700
- [show tech-support macsec](#), on page 2701
- [show tech-support macsec detail](#), on page 2702
- [show tech-support mfwd](#), on page 2703
- [show tech-support mmode](#), on page 2704
- [show tech-support module](#), on page 2705
- [show tech-support module all](#), on page 2706

- [show tech-support monitor](#), on page 2707
- [show tech-support monitor erspan](#), on page 2708
- [show tech-support monitorc-all](#), on page 2709
- [show tech-support mpls manager](#), on page 2710
- [show tech-support mpls static](#), on page 2711
- [show tech-support mpls strip](#), on page 2712
- [show tech-support mpls switching](#), on page 2713
- [show tech-support mpls traffic-eng](#), on page 2714
- [show tech-support mpls fwd](#), on page 2715
- [show tech-support multicast-vxlan-evpn](#), on page 2716
- [show tech-support multicast](#), on page 2717
- [show tech-support mvpn](#), on page 2718
- [show tech-support nat](#), on page 2719
- [show tech-support nbm](#), on page 2720
- [show tech-support nbm group](#), on page 2721
- [show tech-support netflow](#), on page 2722
- [show tech-support netstack](#), on page 2723
- [show tech-support netstack detail](#), on page 2724
- [show tech-support ngoam](#), on page 2725
- [show tech-support npacl](#), on page 2726
- [show tech-support npv](#), on page 2727
- [show tech-support ns](#), on page 2728
- [show tech-support ntp](#), on page 2729
- [show tech-support nve](#), on page 2730
- [show tech-support nxapi](#), on page 2731
- [show tech-support nxsdk](#), on page 2732
- [show tech-support object-store](#), on page 2733
- [show tech-support openflow](#), on page 2734
- [show tech-support openflow platform](#), on page 2735
- [show tech-support ospf](#), on page 2736
- [show tech-support ospfv3](#), on page 2737
- [show tech-support otv](#), on page 2738
- [show tech-support page](#), on page 2739
- [show tech-support patch](#), on page 2740
- [show tech-support pbr](#), on page 2741
- [show tech-support pfstat](#), on page 2742
- [show tech-support pixm-all](#), on page 2743
- [show tech-support pixm](#), on page 2744
- [show tech-support pixmc-all](#), on page 2745
- [show tech-support pktmgr](#), on page 2746
- [show tech-support platform-sdk](#), on page 2747
- [show tech-support plb-services](#), on page 2748
- [show tech-support plcmgr](#), on page 2749
- [show tech-support pltfm-config](#), on page 2750
- [show tech-support pnp](#), on page 2751
- [show tech-support poe](#), on page 2752

- [show tech-support port-channel](#), on page 2753
- [show tech-support port-client-all](#), on page 2754
- [show tech-support port-profile](#), on page 2755
- [show tech-support port-security](#), on page 2756
- [show tech-support port](#), on page 2757
- [show tech-support private-vlan](#), on page 2758
- [show tech-support ptp](#), on page 2759
- [show tech-support radius](#), on page 2760
- [show tech-support rip](#), on page 2761
- [show tech-support routing](#), on page 2762
- [show tech-support routing ipv6](#), on page 2763
- [show tech-support routing ipv6 multicast](#), on page 2764
- [show tech-support routing multicast](#), on page 2765
- [show tech-support rpm](#), on page 2766
- [show tech-support sal](#), on page 2767
- [show tech-support san-port-channel](#), on page 2768
- [show tech-support san](#), on page 2769
- [show tech-support satmgr](#), on page 2770
- [show tech-support security](#), on page 2771
- [show tech-support segment-routing](#), on page 2772
- [show tech-support services](#), on page 2773
- [show tech-support session-mgr](#), on page 2774
- [show tech-support sflow](#), on page 2775
- [show tech-support sksd](#), on page 2776
- [show tech-support sla responder](#), on page 2777
- [show tech-support sla sender](#), on page 2778
- [show tech-support sla twamp-server](#), on page 2779
- [show tech-support smartc](#), on page 2780
- [show tech-support smm](#), on page 2781
- [show tech-support snmp](#), on page 2782
- [show tech-support sockets](#), on page 2783
- [show tech-support spm](#), on page 2784
- [show tech-support srte](#), on page 2785
- [show tech-support statsclient](#), on page 2786
- [show tech-support stp](#), on page 2787
- [show tech-support sup-filesys](#), on page 2788
- [show tech-support sysmgr](#), on page 2789
- [show tech-support tacacs](#), on page 2790
- [show tech-support telemetry](#), on page 2791
- [show tech-support track](#), on page 2792
- [show tech-support tunnel](#), on page 2793
- [show tech-support udd](#), on page 2794
- [show tech-support usd-all](#), on page 2795
- [show tech-support vdc](#), on page 2796
- [show tech-support virtual-service](#), on page 2797
- [show tech-support vlan](#), on page 2798

- [show tech-support vmtracker](#), on page 2799
- [show tech-support vpc](#), on page 2800
- [show tech-support vrrp](#), on page 2801
- [show tech-support vrrp brief](#), on page 2802
- [show tech-support vrrpv3](#), on page 2803
- [show tech-support vsan](#), on page 2804
- [show tech-support vshd](#), on page 2805
- [show tech-support vtp](#), on page 2806
- [show tech-support vvlan](#), on page 2807
- [show tech-support vxlan](#), on page 2808
- [show tech-support vxlan platform](#), on page 2809
- [show tech-support xbar](#), on page 2810
- [show tech-support xml](#), on page 2811
- [show tech-support xos](#), on page 2812
- [show telemetry control database](#), on page 2813
- [show telemetry data collector brief](#), on page 2819
- [show telemetry event collector stats](#), on page 2820
- [show telemetry pipeline stats](#), on page 2822
- [show telemetry transport](#), on page 2824
- [show telemetry usability](#), on page 2827
- [show telnet server](#), on page 2828
- [show terminal](#), on page 2829
- [show terminal output xml version](#), on page 2830
- [show time-range](#), on page 2831
- [show time-stamp running-config last-changed](#), on page 2833
- [show trace callhome](#), on page 2834
- [show track](#), on page 2835
- [show track brief](#), on page 2837
- [show troubleshoot l3 vrf](#), on page 2839
- [show trunk protocol](#), on page 2840
- [show ttag brief](#), on page 2841

# show table-map

```
show table-map [ <imap-name> | <default-omap-enum-name> ] [ __readonly__ { [ TABLE_omap <imap-name>
[ <desc> ] [ <def-value> ] [ <def-copy> ] [ <def-ignore> ] [ TABLE_list <frm-list> <to-val> ] ] } ]
```

## Syntax Description

show	Show running system information
table-map	Table maps
TABLE_omap	(Optional) all omap xml sessions
<i>imap-name</i>	(Optional) Show a particular table map
<i>default-omap-enum-name</i>	(Optional)
<code>__readonly__</code>	(Optional)
<i>desc</i>	(Optional) Description string
<i>def-value</i>	(Optional) Unspecified entries will default to this value
<i>def-copy</i>	(Optional) Map unspecified values to equivalent output value
<i>def-ignore</i>	(Optional) Ignore unspecified values
TABLE_list	(Optional) table map lists
<i>frm-list</i>	(Optional) Original list of values which are to be mapped
<i>to-val</i>	(Optional) To value

## Command Mode

- /exec

## show tacacs-server

```
show tacacs-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <global_deadtime> } [
<global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [ <global_testPassword> ] } {
<server_count> } [ TABLE_server <server_ip> <port> [ <secretKey> ] [ <timeout> ] ] [ { <host0>
<tacacs_port> <shared_key> <idle_time><test_username> <test_password> } + ] ]
```

### Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Tacacs global source interface
<i>global_idle_time</i>	(Optional) Tacacs global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of tacacs servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>port</i>	(Optional) Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>host0</i>	(Optional) DNS name or IP address
<i>tacacs_port</i>	(Optional) TACACS+ server port
<i>shared_key</i>	(Optional) TACACS+ shared secret
<i>test_password</i>	(Optional) User password in test packets

### Command Mode

- /exec



## show tacacs-server

```
show tacacs-server { <host0> } [ __readonly__ { <host1> } ] [ <tac_port> ] [ <tac_shared_key> ] [ <time_out> ] [ <conn_type> ] [ <tac_idle_time> ] [ <test_user_name> ] <test_pwd> ]
```

### Syntax Description

<code>show</code>	Show running system information
<code>tacacs-server</code>	Show TACACS+ configuration information
<i>host0</i>	DNS name or IP address
<code>__readonly__</code>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>tac_port</i>	(Optional) TACACS+ server port
<i>tac_shared_key</i>	(Optional) TACACS+ shared secret
<i>time_out</i>	(Optional) radius server timeout
<i>conn_type</i>	(Optional) TACACS+ connection type
<i>test_user_name</i>	(Optional) User name in test packets
<i>test_pwd</i>	(Optional) User password in test packets
<i>tac_idle_time</i>	(Optional) Time interval for monitoring the server

### Command Mode

- /exec

# show tacacs-server directed-request

```
show tacacs-server directed-request [ __readonly__ { <tacacs_directedRequest_status> } ]
```

## Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
directed-request	Show directed server enable configuration
__readonly__	(Optional)
<i>tacacs_directedRequest_status</i>	(Optional) status of tacacs-server directed request

## Command Mode

- /exec

## show tacacs-server groups

```
show tacacs-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] [ TABLE_group <group_name> [
TABLE_server <server_ip> [ <port> ] ] [ <dead_time> ] [ <vrf_name> ] [ <source_interface> ] ] ]
```

### Syntax Description

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

### Command Mode

- /exec

## show tacacs-server sorted

```
show tacacs-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <global_deadtime> }
[ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [ <global_testPassword> ] } {
<server_count> } [ TABLE_server <server_ip> <port> [ <secretKey> ] [ <timeout> ] ] ]
```

### Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
sorted	Show TACACS+ servers sorted by server name
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Tacacs global source interface
<i>global_idle_time</i>	(Optional) Tacacs global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of tacacs servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>port</i>	(Optional) Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server

### Command Mode

- /exec

## show tacacs-server statistics

```
show tacacs-server statistics { <host0> } [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { autho_statistics <autho_failed_transactions>
<autho_succ_transactions> <autho_req_sent> <autho_req_timedout> <autho_resp_no_match>
<autho_resp_not_processed> <autho_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } ]
```

### Syntax Description

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

<i>autho_failed_transactions</i>	(Optional) Authorization: Failed transactions
<i>autho_succ_transactions</i>	(Optional) Authorization: Successful transactions
<i>autho_req_sent</i>	(Optional) Authorization: Requests sent
<i>autho_req_timedout</i>	(Optional) Authorization: Requests timedout
<i>autho_resp_no_match</i>	(Optional) Authorization: Responses with no matching requests
<i>autho_resp_not_processed</i>	(Optional) Authorization: Responses not processed
<i>autho_resp_error</i>	(Optional) Authorization: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions
<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timedout</i>	(Optional) Accounting: Requests timedout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

**Command Mode**

- /exec

# show tech-support

show tech-support [ time-optimized ] [ forced ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space
forced	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec

# show tech-support aaa

show tech-support aaa

## Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
aaa	Display aaa information

## Command Mode

- /exec



# show tech-support aclmgr

show tech-support aclmgr [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclmgr	ACL commands
detail	(Optional) Detailed Tech Support

## Command Mode

- /exec

# show tech-support aclmgr compressed

show tech-support aclmgr compressed <uri0> [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclmgr	ACL commands
compressed	Save compressed aclqos technical support
<i>uri0</i>	Enter filename to store
detail	(Optional) Detailed Tech Support

## Command Mode

- /exec

# show tech-support aclqos

show tech-support aclqos

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclqos	Show information for aclqos technical support

## Command Mode

- /exec

# show tech-support aclqos compressed

show tech-support aclqos compressed <uri0>

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclqos	Show information for aclqos technical support
compressed	Save compressed aclqos technical support
<i>uri0</i>	Enter filename to store

## Command Mode

- /exec

# show tech-support adjmgr

show tech-support adjmgr [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
adjmgr	Display Adjmgr information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support all

show tech-support all [ space-optimized ] [ time-optimized ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting
space-optimized	(Optional) Gather tech-support info. using less memory and disk space
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space

## Command Mode

- /exec

# show tech-support all binary

show tech-support all binary <uri0>

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting
binary	Gather tech support for all applications in binary format
<i>uri0</i>	Select destination filesystem to save the binary output (NOTE: The output file name will be automatically generated and cannot be chosen)

## Command Mode

- /exec

# show tech-support analytics

show tech-support analytics [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
analytics	Show Analytics tech-support information
brief	(Optional) Brief information

## Command Mode

- /exec



# show tech-support analytics

show tech-support analytics [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
analytics	Show Analytics tech-support information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support arp

show tech-support arp [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
arp	Display ARP information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ascii-cfg

show tech-support ascii-cfg

## Syntax Description

show	Show running system information
tech-support	Show information for technical support personnel
ascii-cfg	Show ascii-cfg information for technical support personnel

## Command Mode

- /exec

# show tech-support assoc\_mgr

show tech-support assoc\_mgr

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
assoc_mgr	Gather detailed information for assoc_mgr troubleshooting

## Command Mode

- /exec

# show tech-support backup

```
show tech-support { backup | flexlink }
```

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
backup	Gather detailed information for Switchport Backup troubleshooting
flexlink	Gather detailed information for Switchport Backup troubleshooting

## Command Mode

- /exec

# show tech-support bfd

show tech-support bfd

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bfd	BFD commands

## Command Mode

- /exec

# show tech-support bgp

show tech-support bgp [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bgp	Display BGP status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support biosd

show tech-support biosd

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
biosd	Gather bios install log for trouble shooting

## Command Mode

- /exec



# show tech-support bloggerd-all

show tech-support bloggerd-all

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bloggerd-all	Gather detailed information for bloggerd troubleshooting from ALL modules

## Command Mode

- /exec

# show tech-support bloggerd

show tech-support bloggerd

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bloggerd	Gather detailed information for bloggerd troubleshooting

## Command Mode

- /exec

# show tech-support bootvar

show tech-support bootvar

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bootvar	Gather detailed information for bootvar troubleshooting

## Command Mode

- /exec

# show tech-support brief

show tech-support brief

## Syntax Description

show	Show running system summary information
tech-support	Gather information for troubleshooting
brief	Gather summary information for troubleshooting

## Command Mode

- /exec

# show tech-support callhome

show tech-support callhome

## Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
callhome	callhome troubleshooting information

## Command Mode

- /exec

# show tech-support cdp

show tech-support cdp

## Syntax Description

show	show running system information
tech-support	Gather information for troubleshooting
cdp	Gather information for CDP trouble shooting

## Command Mode

- /exec

# show tech-support cert-enroll

show tech-support cert-enroll

## Syntax Description

show	show commands
tech-support	Gather information for troubleshooting
cert-enroll	Display certificates information

## Command Mode

- /exec

# show tech-support cfs

show tech-support cfs [ { commands | name <cfs-dyn-app-name> [ commands1 ] } ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
cfs	Gather detailed information for cfs troubleshooting
commands	(Optional) CFS show tech commands
name	(Optional) Gather detailed information of cfs for a specified application
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
commands1	(Optional) CFS application show tech commands

## Command Mode

- /exec



# show tech-support cli

show tech-support cli

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
cli	Gather information for parser troubleshooting

## Command Mode

- /exec

# show tech-support clis

show tech-support clis [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
clis	Gather information for CLI Server troubleshooting
brief	(Optional) Detailed information

## Command Mode

- /exec

# show tech-support clock\_manager

show tech-support clock\_manager

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
clock_manager	Gather detailed information for clock manager troubleshooting

## Command Mode

- /exec

# show tech-support commands

show tech-support commands

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
commands	Show commands executed as part of show tech-support commands

## Command Mode

- /exec

# show tech-support controller

show tech-support controller

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
controller	Gather information for Controller troubleshooting

## Command Mode

- /exec

# show tech-support copp

show tech-support copp

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
copp	Gather information for copp trouble shooting

## Command Mode

- /exec

# show tech-support dcbx

show tech-support dcbx

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
dcbx	Gather detailed information for DCBX component

## Command Mode

- /exec

# show tech-support details

show tech-support details [ space-optimized ] [ time-optimized ] [ debug-enable ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
details	Gather detailed information for troubleshooting
space-optimized	(Optional) Gather tech-support info. using less memory and disk space
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space
debug-enable	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec



# show tech-support dhclient

show tech-support dhclient

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
dhclient	Gather information for dhclient trouble shooting

## Command Mode

- /exec

# show tech-support dhcp

show tech-support dhcp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
dhcp	Gather detailed information for dhcp troubleshooting

## Command Mode

- /exec

# show tech-support dme

show tech-support dme

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
dme	Gather detailed information for dme troubleshooting

## Command Mode

- /exec

# show tech-support dot1x

show tech-support dot1x

## Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
dot1x	Display dot1x information

## Command Mode

- /exec

# show tech-support ecp

show tech-support ecp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ecp	ECP (Edge Control Protocol)

## Command Mode

- /exec

# show tech-support eem

show tech-support eem

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
eem	Show EEM tech-support information

## Command Mode

- /exec

# show tech-support eigrp

show tech-support eigrp [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
eigrp	Display EIGRP status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support eltm

show tech-support eltm [ detail ]

## Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
eltm	eltm debug info
detail	(Optional) Detailed information

## Command Mode

- /exec



# show tech-support ethpm

show tech-support ethpm

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ethpm	Gather detailed information for ETHPM troubleshooting

## Command Mode

- /exec

# show tech-support evb

show tech-support evb

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
evb	EVB (Edge Virtual Bridge)

## Command Mode

- /exec

# show tech-support fabric forwarding

show tech-support fabric forwarding

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)

## Command Mode

- /exec

# show tech-support fabric multicast

show tech-support fabric multicast

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fabric	Fabric
multicast	Multicast information

## Command Mode

- /exec

# show tech-support fabricpath isis

show tech-support fabricpath isis [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support fabricpath topology

show tech-support fabricpath topology [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fabricpath	Gather detailed information for Fabricpath troubleshooting
topology	Gather detailed information for Topology troubleshooting
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support fast-reload

show tech-support fast-reload

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fast-reload	Gather information for troubleshooting fast-reload timings

## Command Mode

- /exec

# show tech-support fc2

show tech-support fc2 [ commands ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fc2	Show information for fc2 technical support
commands	(Optional) Show commands run as part of fc2 technical support

## Command Mode

- /exec



# show tech-support fcoe

show tech-support fcoe

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fcoe	Gather information for FCOE mgr trouble shooting

## Command Mode

- /exec

# show tech-support fips

show tech-support fips

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fips	show tech support information for security

## Command Mode

- /exec

# show tech-support forwarding l2 multicast

show tech-support forwarding l2 multicast

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l2	layer 2 debug information
multicast	multicast

## Command Mode

- /exec

# show tech-support forwarding l2 multicast vdc-all

show tech-support forwarding l2 multicast vdc-all

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l2	layer 2 debug information
multicast	multicast
vdc-all	vdc-all

## Command Mode

- /exec

# show tech-support forwarding l2 unicast

show tech-support forwarding l2 unicast [ module <module> ]

## Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
forwarding	Forwarding debug info
l2	layer 2 debug info
unicast	unicast
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

## Command Mode

- /exec

# show tech-support forwarding l3 multicast

show tech-support forwarding l3 multicast

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast

## Command Mode

- /exec

# show tech-support forwarding l3 multicast detail

show tech-support forwarding l3 multicast detail

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast
detail	detail

## Command Mode

- /exec

# show tech-support forwarding l3 multicast detail vdc-all

show tech-support forwarding l3 multicast detail vdc-all

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast
detail	detail
vdc-all	vdc-all

## Command Mode

- /exec



# show tech-support forwarding l3 multicast vdc-all

show tech-support forwarding l3 multicast vdc-all

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast
vdc-all	vdc-all

## Command Mode

- /exec

# show tech-support forwarding l3 unicast

show tech-support forwarding l3 unicast [ module <module> ] [ list ]

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
module	(Optional) module
<i>module</i>	(Optional) module number
list	(Optional) list the commands, without executing them

## Command Mode

- /exec

# show tech-support forwarding l3 unicast detail

show tech-support forwarding l3 unicast detail [ module <module> ] [ list ]

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
detail	detailed show tech including platform commands
module	(Optional) module
<i>module</i>	(Optional) module number
list	(Optional) list the commands, without executing them

## Command Mode

- /exec

# show tech-support forwarding l3 unicast detail vdc-all

show tech-support forwarding l3 unicast detail vdc-all [ module <module> ]

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
detail	detailed show tech including platform commands
vdc-all	vdc-all
module	(Optional) module
<i>module</i>	(Optional) module number

## Command Mode

- /exec

# show tech-support forwarding l3 unicast vdc-all

show tech-support forwarding l3 unicast vdc-all [ module <module> ]

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
vdc-all	vdc-all
module	(Optional) module
<i>module</i>	(Optional) module number

## Command Mode

- /exec

# show tech-support forwarding mpls

show tech-support forwarding mpls [ module <module> ] [ evpn ]

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
mpls	mpls related information
module	(Optional) module
<i>module</i>	(Optional) module number
evpn	(Optional) evpn related tech support

## Command Mode

- /exec

# show tech-support forwarding multicast

show tech-support forwarding multicast [ module <module> ]

## Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
multicast	multicast
module	(Optional) module
<i>module</i>	(Optional) module number

## Command Mode

- /exec

# show tech-support gold

show tech-support gold

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
gold	Show gold tech-support information

## Command Mode

- /exec



# show tech-support gpixm

show tech-support gpixm

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
gpixm	Gather detailed information for GLOBAL-PIXM troubleshooting

## Command Mode

- /exec

# show tech-support ha

show tech-support ha [ commands ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha	Gather detailed information for HA troubleshooting
commands	(Optional) Show commands executed as part of show tech-support ha commands

## Command Mode

- /exec

# show tech-support ha module

show tech-support ha module <module>

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha	Gather detailed information for HA troubleshooting
module	Gather info related to a module
<i>module</i>	Enter module number

## Command Mode

- /exec

# show tech-support ha\_short

show tech-support ha\_short [ commands ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha_short	Gather shortened version of HA tech-support for troubleshooting
commands	(Optional) Show commands executed as part of show tech-support ha commands

## Command Mode

- /exec

# show tech-support ha standby

show tech-support ha standby [ commands ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha	Gather detailed information for HA troubleshooting
standby	Gather detailed information for HA troubleshooting from standby supervisor
commands	(Optional) Show commands executed as part of show tech-support ha commands

## Command Mode

- /exec

# show tech-support hardware-telemetry

show tech-support hardware-telemetry

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
hardware-telemetry	Hardware Telemetry Information

## Command Mode

- /exec

# show tech-support hsrp

show tech-support hsrp

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
hsrp	Show hsrp tech-support information

## Command Mode

- /exec

# show tech-support hsrp brief

show tech-support hsrp brief

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
hsrp	Show hsrp tech-support information
brief	Show tech-support information in brief

## Command Mode

- /exec



# show tech-support icam

show tech-support icam [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
icam	icam - TCAM Analytics
detail	(Optional) Show more details

## Command Mode

- /exec

# show tech-support icmpv6

show tech-support icmpv6 [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
icmpv6	Display Icmpv6 information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support im

show tech-support im

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
im	Gather detailed information for IM troubleshooting

## Command Mode

- /exec

# show tech-support imp

show tech-support imp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
imp	IMP commands

## Command Mode

- /exec

# show tech-support inband counters

show tech-support inband counters

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
inband	Gather all information about inband data path
counters	Gather all counters in inband data path

## Command Mode

- /exec

# show tech-support include-time

show tech-support include-time

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
include-time	Gather tech-support and capture time taken to execute each command

## Command Mode

- /exec

# show tech-support install

show tech-support install

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
install	Gather detailed information for rpm/package install operation

## Command Mode

- /exec

# show tech-support interface-vlan

show tech-support interface-vlan

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
interface-vlan	Gather detailed information for interface-vlan troubleshooting

## Command Mode

- /exec



# show tech-support ip

show tech-support ip [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ip igmp

show tech-support ip igmp [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
igmp	Display IGMP status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ip igmp snooping

show tech-support ip igmp snooping [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ip msdp

show tech-support ip msdp [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
msdp	Display MSDP status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ip pim

show tech-support ip pim [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
pim	PIM global configuration commands
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ipqos

show tech-support ipqos [ server-only ] [ all ] [ snmp ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
server-only	(Optional) Dump the tech-support information only from IP QoS Manager server only
all	(Optional) Dump the tech-support information IP QoS Manager plus brief summary of system
snmp	(Optional) Dump the tech-support information only from IP QoS Manager server only (SNMP only)

## Command Mode

- /exec

# show tech-support ipv6

show tech-support ipv6 [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPV6 information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ipv6 mld

show tech-support ipv6 mld [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
brief	(Optional) Brief information

## Command Mode

- /exec



# show tech-support ipv6 multicast

show tech-support ipv6 multicast

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPv6 information
multicast	Display V6 Multicast information

## Command Mode

- /exec

# show tech-support ipv6 pim

show tech-support ipv6 pim [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support isis

show tech-support isis [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
isis	IS-IS events
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support issu

show tech-support issu [ commands ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
issu	Gather detailed information for issu troubleshooting
commands	(Optional) Show commands executed as part of show tech-support issu command

## Command Mode

- /exec

# show tech-support kstack

show tech-support kstack

## Syntax Description

show	
tech-support	tech-support information
kstack	kstack information

## Command Mode

- /exec

# show tech-support l2

show tech-support l2

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2	Gather detailed information for layer 2 troubleshooting

## Command Mode

- /exec

# show tech-support l2fm

show tech-support l2fm

## Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
l2fm	l2fm debug info

## Command Mode

- /exec

# show tech-support l2fm clients

show tech-support l2fm clients [ module <module> ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2fm	l2fm debug info
clients	debug info of l2fm clients only running on linecard(mtm)
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

## Command Mode

- /exec



# show tech-support l2fm detail

show tech-support l2fm detail [ module <module> ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2fm	l2fm debug info
detail	All info related to l2fm
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>module</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec

# show tech-support l2fm l2dbg

show tech-support l2fm l2dbg [ module <module> ]

## Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
l2fm	l2fm debug info
l2dbg	tech support capturing additional debug info for l2fm(l2dbg)
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

## Command Mode

- /exec

## show tech-support l2fm l2dbg

show tech-support l2fm l2dbg [ module <module> ]

### Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
l2fm	l2fm debug info
l2dbg	tech support capturing additional debug info for l2fm(l2dbg)
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>module</i>	(Optional) Module Number

### Command Mode

- /exec

# show tech-support l2rib

show tech-support l2rib

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2rib	Display L2RIB information

## Command Mode

- /exec

# show tech-support l3vm

show tech-support l3vm [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l3vm	Display VRF information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support l3vpn

show tech-support l3vpn [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l3vpn	BGP l3vpn information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support lacp

show tech-support lacp [ all ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lacp	Gather detailed information for LACP component
all	(Optional) Gather detailed information of LACP and related components

## Command Mode

- /exec

# show tech-support ldap

show tech-support ldap

## Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
ldap	Display ldap information

## Command Mode

- /exec



# show tech-support license

show tech-support license

## Syntax Description

show	show commands
tech-support	Gather information for troubleshooting
license	Display licensing information

## Command Mode

- /exec

# show tech-support lim

show tech-support lim

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lim	Gather detailed information for LIM troubleshooting

## Command Mode

- /exec

# show tech-support lisp

show tech-support lisp [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lisp	LISP show commands
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support lldp

show tech-support lldp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lldp	Gather detailed information for LLDP troubleshooting

## Command Mode

- /exec

# show tech-support logging

show tech-support logging

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
logging	Show information on logging for technical support staff

## Command Mode

- /exec

# show tech-support m2rib

show tech-support m2rib

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
m2rib	Gather detailed information for M2RIB troubleshooting

## Command Mode

- /exec

# show tech-support macsec

show tech-support macsec

## Syntax Description

tech-support	Gather information for troubleshooting
macsec	Gather information for macsec troubleshooting

## Command Mode

- /exec

# show tech-support macsec detail

show tech-support macsec detail [ module <module> ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
macsec	macsec debug info
detail	All info related to MACsec
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>module</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec



# show tech-support mfw

show tech-support mfw [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mfw	Display MCASTFWD status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support mmode

show tech-support mmode

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mmode	Gather information for troubleshooting mmode

## Command Mode

- /exec

# show tech-support module

show tech-support module <module>

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
module	Gather info related to a module
<i>module</i>	Enter module number

## Command Mode

- /exec

# show tech-support module all

show tech-support module all

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
module	Gather info related to a module
all	Gather info related to all modules in the system

## Command Mode

- /exec

# show tech-support monitor

show tech-support monitor

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
monitor	Gather detailed information for monitor troubleshooting

## Command Mode

- /exec

# show tech-support monitor erspan

show tech-support monitor erspan

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
monitor	Gather detailed information for monitor troubleshooting
erspan	Gather detailed information for erspan session troubleshooting

## Command Mode

- /exec

# show tech-support monitorc-all

show tech-support monitorc-all

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
monitorc-all	Gather detailed information for LC MONITORC troubleshooting

## Command Mode

- /exec

# show tech-support mpls manager

```
{ show tech-support mpls manager }
```

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mpls	MPLS
manager	MPLS-Mgr

## Command Mode

- /exec



# show tech-support mpls static

show tech-support mpls static [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mpls	Display MPLS status and configuration
static	Display STATIC configuration and status for troubleshooting
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support mpls strip

show tech-support mpls strip

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
mpls	MPLS
strip	Gather MPLS label strip troubleshooting info

## Command Mode

- /exec

# show tech-support mpls switching

show tech-support mpls switching

## Syntax Description

show	Show running system information
tech-support	Gather MPLS switching information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database

## Command Mode

- /exec

# show tech-support mpls traffic-eng

show tech-support mpls traffic-eng [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support mpls fwd

show tech-support mpls fwd [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mpls fwd	Display MPLS forwarding information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support multicast-vxlan-evpn

show tech-support multicast-vxlan-evpn

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
multicast-vxlan-evpn	Multicast VxLAN EVPN feature

## Command Mode

- /exec

# show tech-support multicast

show tech-support [ ip | ipv4 ] multicast

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display V4 Multicast information

## Command Mode

- /exec

# show tech-support mvpn

show tech-support mvpn [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mvpn	Display Multicast VPN information
brief	(Optional) Brief information

## Command Mode

- /exec



# show tech-support nat

show tech-support nat

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
nat	Gather information for troubleshooting NAT

## Command Mode

- /exec

# show tech-support nbm

show tech-support nbm [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble-shooting
nbm	Non Blocking Multicast
brief	(Optional) Minimal information

## Command Mode

- /exec

## show tech-support nbm group

show tech-support nbm group <grp> [ source <src> ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ]

### Syntax Description

show	Show running system information
tech-support	Gather information for trouble-shooting
nbm	Non Blocking Multicast
group	Multicast group
<i>grp</i>	Multicast group address
source	(Optional) Source IP address
<i>src</i>	(Optional) Source unicast IP address
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name

### Command Mode

- /exec

# show tech-support netflow

show tech-support netflow [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
netflow	Show NetFlow tech-support information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support netstack

show tech-support netstack

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
netstack	Gather information for NETSTACK troubleshooting

## Command Mode

- /exec

# show tech-support netstack detail

show tech-support netstack detail

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
netstack	Gather information for NETSTACK troubleshooting
detail	Gather detailed information for NETSTACK troubleshooting

## Command Mode

- /exec

# show tech-support ngoam

show tech-support ngoam

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble-shooting
ngoam	ngoam

## Command Mode

- /exec

# show tech-support npacl

show tech-support npacl [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
npacl	Display npacl information
brief	(Optional) Brief npacl information

## Command Mode

- /exec



# show tech-support npv

show tech-support npv

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
npv	Show information for NPV technical support staff

## Command Mode

- /exec

# show tech-support ns

show tech-support ns

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ns	Gather detailed information for northstar asic

## Command Mode

- /exec

# show tech-support ntp

show tech-support ntp

## Syntax Description

show	show running system information
tech-support	Gather information for trouble shooting
ntp	Gather information for NTP trouble shooting

## Command Mode

- /exec

# show tech-support nve

show tech-support nve

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
nve	Display NVE information

## Command Mode

- /exec

# show tech-support nxapi

show tech-support nxapi

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
nxapi	Gather detailed information for nxapi troubleshooting

## Command Mode

- /exec

# show tech-support nxsdk

show tech-support nxsdk

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
nxsdk	NXOS SDK

## Command Mode

- /exec

# show tech-support object-store

show tech-support object-store

## Syntax Description

show	Show Object Store
tech-support	Gather information for troubleshooting
object-store	Gather information from object store for Controller troubleshooting

## Command Mode

- /exec

# show tech-support openflow

show tech-support openflow [ brief | detailed ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
openflow	Show tech support for OpenFlow
brief	(Optional) Brief information
detailed	(Optional) Detailed information

## Command Mode

- /exec



# show tech-support openflow platform

show tech-support openflow platform

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
openflow	openflow component
platform	openflow platform components

## Command Mode

- /exec

# show tech-support ospf

show tech-support ospf [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ospf	Display OSPF status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support ospfv3

show tech-support ospfv3 [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ospfv3	Display OSPFv3 status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support otv

show tech-support otv [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
otv	Display OTV information
brief	(Optional) Brief OTV information

## Command Mode

- /exec

# show tech-support page

show tech-support page [ time-optimized ] [ forced ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
page	Page through the output
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space
forced	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

## Command Mode

- /exec

# show tech-support patch

show tech-support patch

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
patch	Gather detailed information for patch troubleshooting

## Command Mode

- /exec

# show tech-support pbr

{ show tech-support pbr }

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pbr	Display Policy Based Routing (PBR) information

## Command Mode

- /exec

# show tech-support pfstat

show tech-support pfstat

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pfstat	Gather detailed information for pfstat troubleshooting

## Command Mode

- /exec



# show tech-support pixm-all

show tech-support pixm-all

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pixm-all	Gather detailed information for PIXM troubleshooting

## Command Mode

- /exec

# show tech-support pixm

show tech-support pixm

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pixm	Gather detailed information for vdc-local-PIXM troubleshooting

## Command Mode

- /exec

# show tech-support pixmc-all

show tech-support pixmc-all

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pixmc-all	Gather detailed information for LC PIXMC troubleshooting

## Command Mode

- /exec

# show tech-support pktmgr

show tech-support pktmgr [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pktmgr	Display Packet Manager information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support platform-sdk

show tech-support platform-sdk

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
platform-sdk	Gather detailed information for platform-sdk troubleshooting

## Command Mode

- /exec

# show tech-support plb-services

show tech-support plb-services [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
plb-services	PLB Services
detail	(Optional) Show more details

## Command Mode

- /exec

# show tech-support plcmgr

show tech-support plcmgr [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
plcmgr	Policy Manager
detail	(Optional) Print more details (e.g. messages,etc)

## Command Mode

- /exec

# show tech-support pltfm-config

show tech-support pltfm-config

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pltfm-config	Gather detailed information for pltfm-config troubleshooting

## Command Mode

- /exec



# show tech-support pnp

show tech-support pnp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pnp	Show Technical support for Plug and Play

## Command Mode

- /exec

# show tech-support poe

show tech-support poe

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
poe	Gather information for PoE trouble shooting

## Command Mode

- /exec

# show tech-support port-channel

show tech-support port-channel

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port-channel	Gather detailed information for port channel troubleshooting

## Command Mode

- /exec

# show tech-support port-client-all

show tech-support port-client-all

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port-client-all	Gather detailed information for LC port client troubleshooting

## Command Mode

- /exec

# show tech-support port-profile

show tech-support port-profile

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port-profile	Gather information for troubleshooting port-profiles

## Command Mode

- /exec

# show tech-support port-security

show tech-support port-security

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
port-security	Port security related command

## Command Mode

- /exec

# show tech-support port

show tech-support port

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port	Gather detailed information for port manager troubleshooting

## Command Mode

- /exec

# show tech-support private-vlan

show tech-support private-vlan

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
private-vlan	Gather detailed information for private-vlan troubleshooting

## Command Mode

- /exec



# show tech-support ptp

show tech-support ptp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ptp	Gather detailed information for PTP troubleshooting

## Command Mode

- /exec

# show tech-support radius

show tech-support radius

## Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
radius	Display radius information

## Command Mode

- /exec

# show tech-support rip

show tech-support rip [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
rip	Display RIP routing protocol status
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support routing

show tech-support routing [ ip | ipv4 ] [ unicast ] [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast routing information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support routing ipv6

show tech-support routing ipv6 [ unicast ] [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast routing information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support routing ipv6 multicast

show tech-support routing ipv6 multicast [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display V6 Multicast information
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support routing multicast

show tech-support routing [ ip | ipv4 ] multicast [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display V4 Multicast information
brief	(Optional) Display brief information

## Command Mode

- /exec

# show tech-support rpm

```
{ show tech-support rpm }
```

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
rpm	Display Route Policy Manager (RPM) information

## Command Mode

- /exec



# show tech-support sal

show tech-support sal

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sal	Show SAL tech-support information

## Command Mode

- /exec

# show tech-support san-port-channel

show tech-support san-port-channel

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
san-port-channel	Gather detailed information for san port channel troubleshooting

## Command Mode

- /exec

# show tech-support san

show tech-support san

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
san	Gather information for SAN trouble shooting

## Command Mode

- /exec

# show tech-support satmgr

show tech-support satmgr

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
satmgr	Gather detailed information for satmgr troubleshooting

## Command Mode

- /exec

# show tech-support security

show tech-support security

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
security	show tech support information for security

## Command Mode

- /exec

# show tech-support segment-routing

show tech-support segment-routing

## Syntax Description

show	Show running system information
tech-support	Gather tech-support information
segment-routing	Segment-routing tech-support

## Command Mode

- /exec

# show tech-support services

show tech-support services [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
services	Services
detail	(Optional) Show more details

## Command Mode

- /exec

# show tech-support session-mgr

show tech-support session-mgr

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
session-mgr	Gather information for troubleshooting session manager

## Command Mode

- /exec



# show tech-support sflow

show tech-support sflow

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sflow	Gather detailed information for sflow feature

## Command Mode

- /exec

# show tech-support sksd

show tech-support sksd

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sksd	show tech support information for sksd

## Command Mode

- /exec

# show tech-support sla responder

show tech-support sla responder [ brief | detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sla	Service Level Agreement (SLA)
responder	Configure sla-responder tech support
brief	(Optional) Show less details
detail	(Optional) Show more details

## Command Mode

- /exec

# show tech-support sla sender

show tech-support sla sender [ brief | detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sla	Service Level Agreement (SLA)
sender	Configure sla-sender tech support
brief	(Optional) Show less details
detail	(Optional) Show more details

## Command Mode

- /exec

# show tech-support sla twamp-server

show tech-support sla twamp-server [ brief | detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sla	Service Level Agreement (SLA)
twamp-server	Configure sla-twamp-server tech support
brief	(Optional) Show less details
detail	(Optional) Show more details

## Command Mode

- /exec

# show tech-support smartc

show tech-support smartc [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
smartc	smartc channel services
detail	(Optional) Show more details

## Command Mode

- /exec

# show tech-support smm

show tech-support smm

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
smm	Shared memory

## Command Mode

- /exec

# show tech-support snmp

show tech-support snmp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
snmp	Gather info related to snmp

## Command Mode

- /exec



# show tech-support sockets

show tech-support sockets [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sockets	Display sockets status and configuration
brief	(Optional) Brief information

## Command Mode

- /exec

# show tech-support spm

show tech-support spm [ <application> ] [ detail ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
spm	Service Policy Manager
<i>application</i>	(Optional) Specify an application
detail	(Optional) Print more details (e.g. messages,etc)

## Command Mode

- /exec

# show tech-support srte

show tech-support srte

## Syntax Description

show	Show running system information
tech-support	Gather SRTE information
srte	Segment-Routing Traffic Eng

## Command Mode

- /exec

# show tech-support statsclient

show tech-support statsclient [ module <module> ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
statsclient	Gather statsclient tech-support
module	(Optional) Gather info related to one module
<i>module</i>	(Optional) Enter module number

## Command Mode

- /exec

# show tech-support stp

show tech-support stp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
stp	Gather detailed information for STP troubleshooting

## Command Mode

- /exec

# show tech-support sup-filesys

show tech-support sup-filesys

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sup-filesys	File-sys related issue

## Command Mode

- /exec

# show tech-support sysmgr

show tech-support sysmgr [ commands ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sysmgr	Gather detailed information for sysmgr troubleshooting
commands	(Optional) Show commands executed as part of show tech-support sysmgr

## Command Mode

- /exec

# show tech-support tacacs

show tech-support tacacs +

## Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting

## Command Mode

- /exec



# show tech-support telemetry

show tech-support telemetry

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
telemetry	Gather information for telemetry troubleshooting

## Command Mode

- /exec

# show tech-support track

show tech-support track

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
track	Show track tech-support information

## Command Mode

- /exec

# show tech-support tunnel

show tech-support tunnel [ { commands | detail [ commands1 ] } ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
tunnel	Gather detailed information for tunnel troubleshooting
commands	(Optional) Lists commands under 'show tunnel tech-support' command
detail	(Optional) Gather detailed information for tunnel troubleshooting
commands1	(Optional) Lists commands under 'Show tech-support tunnel detail' commands

## Command Mode

- /exec

# show tech-support udd

show tech-support udd

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
udd	Gather detailed information for udd troubleshooting

## Command Mode

- /exec

# show tech-support usd-all

show tech-support usd-all

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
usd-all	Gather detailed information for LC USD troubleshooting

## Command Mode

- /exec

# show tech-support vdc

show tech-support vdc

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vdc	Gather detailed information for VDC troubleshooting

## Command Mode

- /exec

# show tech-support virtual-service

show tech-support virtual-service

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
virtual-service	Gather information for virtualization services trouble shooting

## Command Mode

- /exec

# show tech-support vlan

show tech-support vlan

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vlan	Gather detailed information for VLAN troubleshooting

## Command Mode

- /exec



# show tech-support vmtracker

show tech-support vmtracker

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vmtracker	VMTRACKER commands

## Command Mode

- /exec

# show tech-support vpc

show tech-support vpc

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vpc	Gather detailed information for VPC troubleshooting

## Command Mode

- /exec

# show tech-support vrrp

show tech-support vrrp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vrrp	Show information for vrrp technical support

## Command Mode

- /exec

# show tech-support vrrp brief

show tech-support vrrp brief

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vrrp	Show information for vrrp technical support
brief	Show information for vrrp technical support in brief

## Command Mode

- /exec

# show tech-support vrrpv3

show tech-support vrrpv3 [ detail ]

## Syntax Description

vrrpv3	VRRPv3 configuration commands
show	Show running system information
tech-support	Gather information for trouble shooting
detail	(Optional) Detailed output

## Command Mode

- /exec

# show tech-support vsan

show tech-support vsan [ <i>i0</i> | commands ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vsan	Gather detailed information for vsan troubleshooting
<i>i0</i>	(Optional) VSAN id range
commands	(Optional) Show commands run as part of vsan technical support

## Command Mode

- /exec

# show tech-support vshd

show tech-support vshd

## Syntax Description

show	Show running system information
tech-support	Show information for technical support
vshd	Show vshd information for technical support

## Command Mode

- /exec

# show tech-support vtp

show tech-support vtp

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vtp	Gather detailed information for vtp troubleshooting

## Command Mode

- /exec



# show tech-support vvlan

show tech-support vvlan

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vvlan	Gather detailed information for Voice VLAN troubleshooting

## Command Mode

- /exec

# show tech-support vxlan

show tech-support vxlan

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
vxlan	VxLAN feature

## Command Mode

- /exec

# show tech-support vxlan platform

show tech-support vxlan platform

## Syntax Description

show	Show tech-support
tech-support	Gather information for troubleshooting
vxlan	VxLAN components
platform	VxLAN platform components

## Command Mode

- /exec

# show tech-support xbar

show tech-support xbar

## Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
xbar	Show xbar tech-support information

## Command Mode

- /exec

# show tech-support xml

show tech-support xml

## Syntax Description

show	show running system information
tech-support	Gather information for trouble shooting
xml	Gather information for xml trouble shooting

## Command Mode

- /exec

# show tech-support xos

show tech-support xos [ brief ]

## Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
xos	Cross-OS Library Information and Traces
brief	(Optional) Brief information

## Command Mode

- /exec

## show telemetry control database

```

show telemetry control { database [ subscriptions | destination-groups | destinations | sensor-paths | sensor-groups
] | stats } [ __readonly__ [ <subscription_db_size> ] [ { TABLE_subscriptions <subscription_id>
<data_collector_type> } ] [ <sensor_grp_db_size> ] [ { TABLE_sensor_grp <snrsr_grp_row_idx> <snrsr_grp_id>
<snrsr_grp_type> <snrsr_grp_collector_type> <snrsr_grp_timer_interval> <snrsr_grp_timer_status>
<snrsr_grp_sub_count> <snrsr_grp_sub_id> <snrsr_grp_dc_cur_time> <snrsr_grp_dc_min_time>
<snrsr_grp_dc_max_time> <snrsr_grp_enc_cur_time> <snrsr_grp_enc_min_time> <snrsr_grp_enc_max_time>
<snrsr_grp_trans_cur_time> <snrsr_grp_trans_min_time> <snrsr_grp_trans_max_time>
<snrsr_grp_stream_cur_time> <snrsr_grp_stream_min_time> <snrsr_grp_stream_max_time>
<snrsr_grp_stream_col_id_drop> <snrsr_grp_stream_last_col_id_drop> <snrsr_grp_stream_col_drop> } ] [
<sensor_path_db_size> ] [ { TABLE_sensor_path <path_row_idx> <path_subscribed> <path_group_count>
<path_secondary_group_count> <path_level> <path_name> <path_grp_id> <path_query_condition>
<path_filter_condition> <path_gpb_cur_enc_size> <path_gpb_min_enc_size> <path_gpb_max_enc_size>
<path_json_cur_enc_size> <path_json_min_enc_size> <path_json_max_enc_size> <path_dc_cur_time>
<path_dc_min_time> <path_dc_max_time> <path_enc_cur_time> <path_enc_min_time>
<path_enc_max_time> <path_trans_cur_time> <path_trans_min_time> <path_trans_max_time>
<path_stream_cur_time> <path_stream_min_time> <path_stream_max_time> } ] [
<destination_group_db_size> ] [ <destination_group_use_vrf> ] [ { TABLE_destination_group
<destination_group_id> <destination_group_refcount> } ] [ <destination_db_size> ] [ { TABLE_destinations
<destination_ip> <destination_port> <destination_encoding> <destination_transport> <destination_refcount>
} ] [ db_statistics <chunk_alloc_fail> <sensor_path_chunk_create_fail> <sensor_group_chunk_create_fail>
<destination_chunk_create_fail> <destination_group_chunk_create_fail> <subscription_chunk_create_fail>
<sensor_path_db_create_fail> <sensor_group_db_create_fail> <destination_db_create_fail>
<destination_group_db_create_fail> <subscription_db_create_fail> <sensor_path_db_insert_fail>
<sensor_group_db_insert_fail> <destination_db_insert_fail> <destination_group_db_insert_fail>
<subscription_db_insert_fail> <sensor_path_db_delete_fail> <sensor_group_db_delete_fail>
<destination_db_delete_fail> <destination_group_db_delete_fail> <subscription_db_delete_fail>
<sensor_path_delete_in_use> <sensor_group_delete_in_use> <destination_delete_in_use>
<destination_group_delete_in_use> <delete_destination_in_use_fail>
<sensor_path_sensor_group_list_create_fail> <sensor_path_prop_list_create_fail>
<sensor_path_secondary_sensor_path_list_create_fail> <sensor_path_secondary_sensor_group_list_create_fail>
<sensor_group_sensor_path_list_create_fail> <sensor_group_subscription_list_create_fail>
<destination_group_subscription_list_create_fail> <destination_group_destination_list_create_fail>
<destination_destination_group_list_create_fail> <subscription_sensor_group_list_create_fail>
<subscription_destination_group_list_create_fail> <sensor_group_sensor_path_list_delete_fail>
<sensor_group_subscription_list_delete_fail> <sensor_group_subscription_unsupported_data_source_fail>
<destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail>
<subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail>
<destination_destination_group_list_delete_fail> <destination_delete_from_destination_group_fail>
<destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail>
<sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail> ] ]

```

### Syntax Description

show	Show running system information
telemetry	Show telemetry info
control	Show telemetry control

database	Show database
subscriptions	(Optional) Show subscriptions
destination-groups	(Optional) Show destination-groups
destinations	(Optional) Show destinations
sensor-paths	(Optional) Show sensor-paths
sensor-groups	(Optional) Show sensor-groups
stats	Show stats
__readonly__	(Optional)
TABLE_sensor_grp	(Optional) Sensor group table
<i>sensor_grp_db_size</i>	(Optional) Sensor group DB size
<i>snsr_grp_row_idx</i>	(Optional) Sensor Group Row Idx
<i>snsr_grp_id</i>	(Optional) Sensor Group Id
<i>snsr_grp_type</i>	(Optional) Sensor Group Type
<i>snsr_grp_collector_type</i>	(Optional) Sensor Group Collector Type
<i>snsr_grp_timer_interval</i>	(Optional) Sensor Group Timer Interval in ms
<i>snsr_grp_timer_status</i>	(Optional) Sensor Group Timer Status
<i>snsr_grp_sub_count</i>	(Optional) Sensor Group Sub Count
<i>snsr_grp_sub_id</i>	(Optional) Sensor Group Sub Id
<i>snsr_grp_dc_cur_time</i>	(Optional) Sensor Group Data collection Current Time
<i>snsr_grp_dc_min_time</i>	(Optional) Sensor Group Data collection Minimum Time
<i>snsr_grp_dc_max_time</i>	(Optional) Sensor Group Data collection Maximum Time
<i>snsr_grp_enc_cur_time</i>	(Optional) Sensor Group Encoding Current Time
<i>snsr_grp_enc_min_time</i>	(Optional) Sensor Group Encoding Minimum Time
<i>snsr_grp_enc_max_time</i>	(Optional) Sensor Group Encoding Maximum Time
<i>snsr_grp_trans_cur_time</i>	(Optional) Sensor Group Transport Current Time
<i>snsr_grp_trans_min_time</i>	(Optional) Sensor Group Transport Minimum Time
<i>snsr_grp_trans_max_time</i>	(Optional) Sensor Group Transport Maximum Time
<i>snsr_grp_stream_cur_time</i>	(Optional) Sensor Group Streaming Current Time
<i>snsr_grp_stream_min_time</i>	(Optional) Sensor Group Streaming Minimum Time



<i>snsr_grp_stream_max_time</i>	(Optional) Sensor Group Streaming Maximum Time
<i>snsr_grp_stream_col_id_drop</i>	(Optional) Sensor Group Stream collection id Drop
<i>snsr_grp_stream_last_col_id_drop</i>	(Optional) Sensor Group Stream last collection id Drop
<i>snsr_grp_stream_col_drop</i>	(Optional) Sensor Group Stream number of collections dropped
TABLE_sensor_path	(Optional) Sensor path table
<i>sensor_path_db_size</i>	(Optional) Sensor path DB size
<i>path_row_idx</i>	(Optional) Sensor Path row index
<i>path_subscribed</i>	(Optional) Sensor path subscribed to events
<i>path_group_count</i>	(Optional) Sensor path group subscriptions
<i>path_secondary_group_count</i>	(Optional) Sensor path secondary group subscriptions
<i>path_level</i>	(Optional) Sensor path level
<i>path_name</i>	(Optional) Sensor path name
<i>path_grp_id</i>	(Optional) Sensor path group ID
<i>path_query_condition</i>	(Optional) Sensor path query condition
<i>path_filter_condition</i>	(Optional) Sensor path filter condition
<i>path_gpb_cur_enc_size</i>	(Optional) Sensor path gpb current encoded size
<i>path_gpb_min_enc_size</i>	(Optional) Sensor path gpb min encoded size
<i>path_gpb_max_enc_size</i>	(Optional) Sensor path gpb max encoded size
<i>path_json_cur_enc_size</i>	(Optional) Sensor path json current encoded size
<i>path_json_min_enc_size</i>	(Optional) Sensor path json min encoded size
<i>path_json_max_enc_size</i>	(Optional) Sensor path json max encoded size
<i>path_dc_cur_time</i>	(Optional) sensor path last collection time
<i>path_dc_min_time</i>	(Optional) sensor path min collection time
<i>path_dc_max_time</i>	(Optional) sensor path max collection time
<i>path_enc_cur_time</i>	(Optional) sensor path last encode time
<i>path_enc_min_time</i>	(Optional) sensor path min encode time
<i>path_enc_max_time</i>	(Optional) sensor path max encode time
<i>path_trans_cur_time</i>	(Optional) sensor path last transport time
<i>path_trans_min_time</i>	(Optional) sensor path min transport time

<i>path_trans_max_time</i>	(Optional) sensor path min transport time
<i>path_stream_cur_time</i>	(Optional) sensor path last stream time
<i>path_stream_min_time</i>	(Optional) sensor path min stream time
<i>path_stream_max_time</i>	(Optional) sensor path max stream time
TABLE_destination_group	(Optional) Destination group table
<i>destination_group_id</i>	(Optional) Destination group ID
<i>destination_group_db_size</i>	(Optional) Destination group DB size
<i>destination_group_use_vrf</i>	(Optional) Destination group vrf
<i>destination_group_refcount</i>	(Optional) Destination group subscription count
TABLE_destinations	(Optional) Destination table
<i>destination_db_size</i>	(Optional) Destination DB size
<i>destination_ip</i>	(Optional) Destination IP address
<i>destination_port</i>	(Optional) Destination IP port
<i>destination_encoding</i>	(Optional) Destination encoding
<i>destination_transport</i>	(Optional) Destination transport
<i>destination_refcount</i>	(Optional) Destination subscription count
TABLE_subscriptions	(Optional) Subscription table
<i>subscription_id</i>	(Optional) Subscription ID
<i>subscription_db_size</i>	(Optional) Subscription DB size
<i>data_collector_type</i>	(Optional) Data collector type
db_statistics	(Optional) DB Statistics
<i>chunk_alloc_fail</i>	(Optional) Chunk Alloc Fail
<i>sensor_path_chunk_create_fail</i>	(Optional) Sensor Path Chunk Create Fail
<i>sensor_group_chunk_create_fail</i>	(Optional) Sensor Group Chunk Create Fail
<i>destination_chunk_create_fail</i>	(Optional) Destination Chunk Create Fail
<i>destination_group_chunk_create_fail</i>	(Optional) Destination Group Chunk Create Fail
<i>subscription_chunk_create_fail</i>	(Optional) Subscription Chunk Create Fail
<i>sensor_path_db_create_fail</i>	(Optional) Sensor Path Db Create Fail
<i>sensor_group_db_create_fail</i>	(Optional) Sensor Group Db Create Fail

<i>destination_db_create_fail</i>	(Optional) Destination Db Create Fail
<i>destination_group_db_create_fail</i>	(Optional) Destination Group Db Create Fail
<i>subscription_db_create_fail</i>	(Optional) Subscription Db Create Fail
<i>sensor_path_db_insert_fail</i>	(Optional) Sensor Path Db Insert Fail
<i>sensor_group_db_insert_fail</i>	(Optional) Sensor Group Db Insert Fail
<i>destination_db_insert_fail</i>	(Optional) Destination Db Insert Fail
<i>destination_group_db_insert_fail</i>	(Optional) Destination Group Db Insert Fail
<i>subscription_db_insert_fail</i>	(Optional) Subscription Db Insert Fail
<i>sensor_path_db_delete_fail</i>	(Optional) Sensor Path Db Delete Fail
<i>sensor_group_db_delete_fail</i>	(Optional) Sensor Group Db Delete Fail
<i>destination_db_delete_fail</i>	(Optional) Destination Db Delete Fail
<i>destination_group_db_delete_fail</i>	(Optional) Destination Group Db Delete Fail
<i>subscription_db_delete_fail</i>	(Optional) Subscription Db Delete Fail
<i>sensor_path_delete_in_use</i>	(Optional) Sensor Path Delete In Use
<i>sensor_group_delete_in_use</i>	(Optional) Sensor Group Delete In Use
<i>destination_delete_in_use</i>	(Optional) Destination Delete In Use
<i>destination_group_delete_in_use</i>	(Optional) Destination Group Delete In Use
<i>delete_destination_in_use_fail</i>	(Optional) Delete Destination In Use Fail
<i>sensor_path_sensor_group_list_create_fail</i>	(Optional) Sensor Path Sensor Group List Create Fail
<i>sensor_path_prop_list_create_fail</i>	(Optional) Sensor Path Prop List Create Fail
<i>sensor_path_secondary_sensor_path_list_create_fail</i>	(Optional) Sensor Path Secondary Sensor Path List Create Fail
<i>sensor_path_secondary_sensor_group_list_create_fail</i>	(Optional) Sensor Path Secondary Sensor Group List Create Fail
<i>sensor_group_sensor_path_list_create_fail</i>	(Optional) Sensor Group Sensor Path List Create Fail
<i>sensor_group_subscription_list_create_fail</i>	(Optional) Sensor Group Subscription List Create Fail
<i>destination_group_subscription_list_create_fail</i>	(Optional) Destination Group Subscription List Create Fail
<i>destination_group_destination_list_create_fail</i>	(Optional) Destination Group Destination List Create Fail
<i>destination_destination_group_list_create_fail</i>	(Optional) Destination Destination Group List Create Fail
<i>subscription_sensor_group_list_create_fail</i>	(Optional) Subscription Sensor Group List Create Fail
<i>subscription_destination_group_list_create_fail</i>	(Optional) Subscription Destination Group List Create Fail

<i>sensor_group_sensor_path_list_delete_fail</i>	(Optional) Sensor Group Sensor Path List Delete Fail
<i>sensor_group_subscription_list_delete_fail</i>	(Optional) Sensor Group Subscription List Delete Fail
<i>sensor_group_subscription_unsupported_data_source_fail</i>	(Optional) Sensor Group Subscription Unsupported Data Source Fail
<i>destination_group_subscription_list_delete_fail</i>	(Optional) Destination Group Subscription List Delete Fail
<i>destination_group_destination_list_delete_fail</i>	(Optional) Destination Group Destination List Delete Fail
<i>subscription_sensor_group_list_delete_fail</i>	(Optional) Subscription Sensor Group List Delete Fail
<i>subscription_destination_group_list_delete_fail</i>	(Optional) Subscription Destination Group List Delete Fail
<i>destination_destination_group_list_delete_fail</i>	(Optional) Destination Destination Group List Delete Fail
<i>destination_delete_from_destination_group_fail</i>	(Optional) Destination Delete From Destination Group Fail
<i>destination_group_delete_from_subscription_fail</i>	(Optional) Destination Group Delete From Subscription Fail
<i>sensor_group_delete_from_subscription_fail</i>	(Optional) Sensor Group Delete From Subscription Fail
<i>sensor_path_delete_from_sensor_group_fail</i>	(Optional) Sensor Path Delete From Sensor Group Fail
<i>get_encode_cb_fail</i>	(Optional) Get Encode Cb Fail
<i>get_transport_cb_fail</i>	(Optional) Get Transport Cb Fail

**Command Mode**

- /exec

# show telemetry data collector brief

```
show telemetry data collector { brief | details } [ __readonly__ [ { TABLE_data_collector_brief <dcb_row_idx>
<dcb_collector_type> <dcb_success_count> <dcb_fail_count> <dcb_skip_count> } ] [ {
TABLE_data_collector_details <dcd_row_idx> <dcd_success_count> <dcd_fail_count> <dcd_skip_count>
<dcd_path_name> <dcd_grp_id> } ] ]
```

## Syntax Description

show	Show running system information
telemetry	Show telemetry info
data	Show telemetry data info
collector	Show telemetry data collector info
brief	Show component level data collection stats
details	Show path level data collection stats
__readonly__	(Optional)
TABLE_data_collector_brief	(Optional) Data collector brief
<i>dcb_row_idx</i>	(Optional) Data collector brief index
<i>dcb_collector_type</i>	(Optional) Data collector type
<i>dcb_success_count</i>	(Optional) Data collector success count
<i>dcb_fail_count</i>	(Optional) Data collector fail count
<i>dcb_skip_count</i>	(Optional) Data collector skip count
TABLE_data_collector_details	(Optional) Data collector details
<i>dcd_row_idx</i>	(Optional) Data collector row index
<i>dcd_success_count</i>	(Optional) Data collector success count
<i>dcd_fail_count</i>	(Optional) Data collector fail count
<i>dcd_skip_count</i>	(Optional) Data collector skip count
<i>dcd_path_name</i>	(Optional) Data collector path name
<i>dcd_grp_id</i>	(Optional) Data collector group ID

## Command Mode

- /exec

## show telemetry event collector stats

```
show telemetry event collector { stats | errors } [ __readonly__ [ { TABLE_event_collector_stats <ec_row_idx>
<ec_collection_count> <ec_last_collection_ts> <ec_sensor_path> <ec_sensor_grp_id> } ] [ {
event_collector_errors <event_sub_init_fail> <event_data_enq_fail> <event_sub_fail>
<pending_sub_list_create_fail> <sub_hash_table_create_fail> <sub_hash_table_destroy_fail>
<sub_hash_table_insert_fail> <sub_hash_table_remove_fail> } ] ]
```

### Syntax Description

show	Show running system information
telemetry	Show telemetry info
event	Show telemetry event info
collector	Show telemetry event collector info
stats	Show all tm stat info
errors	Show all tm error info
<i>__readonly__</i>	(Optional)
<i>event_collector_errors</i>	(Optional) Event collection failure
<i>event_sub_init_fail</i>	(Optional) Event Sub Init Fail
<i>event_data_enq_fail</i>	(Optional) Event Data Enqueue Fail
<i>event_sub_fail</i>	(Optional) Event Subscription Fail
<i>pending_sub_list_create_fail</i>	(Optional) Pending Subscription List Create Fail
<i>sub_hash_table_create_fail</i>	(Optional) Subscription Hash Table Create Fail
<i>sub_hash_table_destroy_fail</i>	(Optional) Subscription Hash Table Destroy Fail
<i>sub_hash_table_insert_fail</i>	(Optional) Subscription Hash Table Insert Fail
<i>sub_hash_table_remove_fail</i>	(Optional) Subscription Hash Table Remove Fail
<i>TABLE_event_collector_stats</i>	(Optional) Event collector stats table
<i>ec_row_idx</i>	(Optional) Event collector row index
<i>ec_collection_count</i>	(Optional) Event collection count
<i>ec_last_collection_ts</i>	(Optional) Last event collection timestamp
<i>ec_sensor_path</i>	(Optional) Event collection sensor path
<i>ec_sensor_grp_id</i>	(Optional) Event collection group ID

### Command Mode

- /exec

## show telemetry pipeline stats

```
show telemetry pipeline stats [ __readonly__ { main_statistics { timers <start_fail> } { data_collector
<dnode_create_fail> } { event_collector <enode_create_fail> <node_add_fail> <invalid_data> } { memory
<allowed_limit> <occupied_mem> } } { queue_statistics { TABLE_queue <queue_name> <actual_size>
<current_size> <max_size> <full_count> <enqueue_error> <dequeue_error> } } ]
```

### Syntax Description

show	Show running system information
telemetry	Show telemetry info
pipeline	Show telemetry pipeline info
stats	Show all telemetry pipeline stats
<i>__readonly__</i>	(Optional)
main_statistics	(Optional) Main Statistics
timers	(Optional) Timers Statistics
<i>start_fail</i>	(Optional) Timers start failure
data_collector	(Optional) Data collector Statistics
<i>dnode_create_fail</i>	(Optional) Data Node creation failure
event_collector	(Optional) Event collector Statistics
<i>enode_create_fail</i>	(Optional) Event Node creation failure
<i>node_add_fail</i>	(Optional) Node add failure
<i>invalid_data</i>	(Optional) Invalid data
memory	(Optional) Memory Statistics
<i>allowed_limit</i>	(Optional) Allowed memory limit
<i>occupied_mem</i>	(Optional) Occupied memory
queue_statistics	(Optional) Queue Statistics
TABLE_queue	(Optional) Queue table
<i>queue_name</i>	(Optional) Queue name
<i>actual_size</i>	(Optional) Actual size
<i>current_size</i>	(Optional) Current size
<i>max_size</i>	(Optional) Maximum size



<i>full_count</i>	(Optional) Full count
<i>enqueue_error</i>	(Optional) Enqueue error
<i>dequeue_error</i>	(Optional) Dequeue error

**Command Mode**

- /exec

## show telemetry transport

```
show telemetry transport [ <session_id> [ { stats | errors } ] ] [ __readonly__ [ { TABLE_transport_info
<session_idx> [ <ip_address> ] [ <port> ] [ <dest_info> ] [ <encoding_type> ] <transport_type>
<transport_status> [ <transport_security_cert_fname> ] [ <transport_last_connected> ] [
<transport_last_disconnected> ] [ <transport_errors_count> ] [ <transport_last_tx_error> } ] ] [ <t_session_id>
] [ { transport_statistics [ { connect_statistics <connect_count> <last_connected> <disconnect_count>
<last_disconnected> } ] { trans_statistics <compression> <source_interface_name> <source_interface_ip>
<transmit_count> <last_tx_time> <min_tx_time> <max_tx_time> <avg_tx_time> <cur_tx_time> } } ] [ {
transport_errors { connect_errors <connect_errors_count> } { trans_errors <trans_errors_count> <last_tx_error>
[ <last_tx_return_code> } ] } ] [ { transport_retry_stats <ts_event_retry_bytes> <ts_event_retry_size>
<ts_timer_retry_bytes> <ts_timer_retry_size> <ts_retries_sent> <ts_retries_dropped> } ] [ <retry_buffer_size>
] [ <event_retry_bytes> ] [ <timer_retry_bytes> ] [ <retries_sent> ] [ <retries_dropped> ] ]
```

### Syntax Description

show	Show running system information
telemetry	Show telemetry info
transport	Show telemetry transport info
<i>session_id</i>	(Optional) Session id
stats	(Optional) Show all tm stat info
errors	(Optional) Show all tm error info
<i>__readonly__</i>	(Optional)
TABLE_transport_info	(Optional) Transport information
<i>session_idx</i>	(Optional) Session Id
<i>ip_address</i>	(Optional) Transport IP address
<i>port</i>	(Optional) Transport port
<i>dest_info</i>	(Optional) Destination information
<i>encoding_type</i>	(Optional) Encoding type
<i>transport_type</i>	(Optional) Transport type
<i>transport_status</i>	(Optional) Transport status
<i>transport_security_cert_fname</i>	(Optional) Transport security file name
<i>transport_last_connected</i>	(Optional) Transport last connected
<i>transport_last_disconnected</i>	(Optional) Transport last disconnected
<i>transport_errors_count</i>	(Optional) Transport errors count

<i>transport_last_tx_error</i>	(Optional) Transport last tx error
<i>transport_statistics</i>	(Optional) Transport statistics
<i>t_session_id</i>	(Optional) Transport Session id
<i>connect_statistics</i>	(Optional) Connection statistics
<i>connect_count</i>	(Optional) Connection count
<i>last_connected</i>	(Optional) Last connected timestamp
<i>disconnect_count</i>	(Optional) Disconnect count
<i>last_disconnected</i>	(Optional) Last disconnected timestamp
<i>trans_statistics</i>	(Optional) Transport statistics
<i>compression</i>	(Optional) Compression status
<i>source_interface_name</i>	(Optional) Source interface name
<i>source_interface_ip</i>	(Optional) Source interface ip
<i>transmit_count</i>	(Optional) Transmission count
<i>last_tx_time</i>	(Optional) Last Transmission time
<i>min_tx_time</i>	(Optional) Minimum transmission time
<i>max_tx_time</i>	(Optional) Maximum transmission time
<i>avg_tx_time</i>	(Optional) Average transmission time
<i>cur_tx_time</i>	(Optional) Current transmission time
<i>transport_errors</i>	(Optional) Transport errors
<i>connect_errors</i>	(Optional) Connection errors
<i>connect_errors_count</i>	(Optional) Connection error count
<i>trans_errors</i>	(Optional) Transport errors
<i>trans_errors_count</i>	(Optional) Transport error count
<i>last_tx_error</i>	(Optional) Last transport error
<i>last_tx_return_code</i>	(Optional) Last transport return code
<i>transport_retry_stats</i>	(Optional) Retry Statistics
<i>ts_event_retry_bytes</i>	(Optional) Event Retry buffer size
<i>ts_timer_retry_bytes</i>	(Optional) Timer Retry buffer size
<i>ts_event_retry_size</i>	(Optional) Event Retry number of messages

<i>ts_timer_retry_size</i>	(Optional) Timer Retry number of messages
<i>ts_retries_sent</i>	(Optional) Number of retries sent
<i>ts_retries_dropped</i>	(Optional) Number of retries dropped
<i>event_retry_bytes</i>	(Optional) Event Retry buffer size
<i>timer_retry_bytes</i>	(Optional) Timer Retry buffer size
<i>retries_sent</i>	(Optional) Number of retries sent
<i>retries_dropped</i>	(Optional) Number of retries dropped
<i>retry_buffer_size</i>	(Optional) Retry buffer size

**Command Mode**

- /exec

# show telemetry usability

```
show telemetry usability { all | environment | interface | vxlan | resources } [ __readonly__ [ {
TABLE_path_labels <label_row_idx> <label_name> <label_path_name> <label_query_type>
<label_query_condition> } ] ]
```

## Syntax Description

show	Show running system information
telemetry	Show telemetry info
usability	Usability path information
all	show all the usability path query information
environment	show environment query information
interface	show interface query information
vxlan	show vxlan query information
resources	show system resources query information
__readonly__	(Optional)
TABLE_path_labels	(Optional) Ease of use path table
<i>label_row_idx</i>	(Optional) row index
<i>label_name</i>	(Optional) label name
<i>label_path_name</i>	(Optional) actual path configured
<i>label_query_type</i>	(Optional) query type
<i>label_query_condition</i>	(Optional) actual query condition

## Command Mode

- /exec

# show telnet server

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

## Syntax Description

show	Show running system information
telnet	Show telnet server configuration
server	Show telnet server configuration
__readonly__	(Optional)
operation_status	(Optional) run-time information about telnet
<i>o_status</i>	(Optional) operational status of telnet server

## Command Mode

- /exec

# show terminal

```
show terminal [ __readonly__ { <terminal_tty> } { <terminal_type> } { <terminal_length> } {
<terminal_width> } { <session_timeout> } { <evnt_mgr_cli_evnt_bypass> } { <redirection_mode> } {
<acc_log_all_commands> } [ <vlan_mutex_value> ] { <vlan_batch_mode> } ]
```

## Syntax Description

show	Show running system information
terminal	Display terminal configuration parameters
<i>__readonly__</i>	(Optional)
<i>terminal_tty</i>	(Optional)
<i>terminal_type</i>	(Optional)
<i>terminal_length</i>	(Optional)
<i>terminal_width</i>	(Optional)
<i>session_timeout</i>	(Optional)
<i>evnt_mgr_cli_evnt_bypass</i>	(Optional)
<i>redirection_mode</i>	(Optional)
<i>acc_log_all_commands</i>	(Optional)
<i>vlan_mutex_value</i>	(Optional)
<i>vlan_batch_mode</i>	(Optional)

## Command Mode

- /exec

# show terminal output xml version

show terminal output xml version [ \_\_readonly\_\_ { xml\_version <version> } ]

## Syntax Description

show	Show running system information
terminal	Display
output	Display
xml	Display
version	Display
__readonly__	(Optional)
xml_version	(Optional) xml version
<i>version</i>	(Optional) version

## Command Mode

- /exec



## show time-range

```
show time-range [ <name> ] [ __readonly__ TABLE_timerange <timerange_name> <active> [ TABLE_seqno
<seqno> { { absolute [ <start_abs_h> <start_abs_m> <start_abs_s> <start_abs_d> <start_abs_mon>
<start_abs_y> ] [ <end_abs_h> <end_abs_m> <end_abs_s> <end_abs_d> <end_abs_mon> <end_abs_y> ]
} | { periodic { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | daily | weekdays |
weekend } + <start_per_h> <start_per_m> <start_per_s> [ <eday> ] <end_per_h> <end_per_m> <end_per_s>
} | { <remark> } } ] ] ]
```

### Syntax Description

show	Show running system information
time-range	Define time range entries
<i>name</i>	(Optional) Time range name
<i>__readonly__</i>	(Optional)
TABLE_timerange	(Optional)
<i>timerange_name</i>	(Optional)
<i>active</i>	(Optional) active
TABLE_seqno	(Optional)
<i>seqno</i>	(Optional) Sequence number
absolute	(Optional)
periodic	(Optional)
<i>remark</i>	(Optional)
<i>start_abs_h</i>	(Optional)
<i>start_abs_m</i>	(Optional)
<i>start_abs_s</i>	(Optional)
<i>start_abs_d</i>	(Optional)
<i>start_abs_mon</i>	(Optional)
<i>start_abs_y</i>	(Optional)
<i>end_abs_h</i>	(Optional)
<i>end_abs_m</i>	(Optional)
<i>end_abs_s</i>	(Optional)
<i>end_abs_d</i>	(Optional)

<i>end_abs_mon</i>	(Optional)
<i>end_abs_y</i>	(Optional)
Monday	(Optional) Monday
Tuesday	(Optional) Tuesday
Wednesday	(Optional) Wednesday
Thursday	(Optional) Thursday
Friday	(Optional) Friday
Saturday	(Optional) Saturday
Sunday	(Optional) Sunday
daily	(Optional) Every day of the week
weekdays	(Optional) Monday thru Friday
weekend	(Optional) Saturday and Sunday
<i>start_per_h</i>	(Optional)
<i>start_per_m</i>	(Optional)
<i>start_per_s</i>	(Optional)
<i>eday</i>	(Optional) Day of the week
<i>end_per_h</i>	(Optional)
<i>end_per_m</i>	(Optional)
<i>end_per_s</i>	(Optional)

**Command Mode**

- /exec

# show time-stamp running-config last-changed

show time-stamp running-config last-changed [ \_\_readonly\_\_ <run\_config\_change\_time> ]

## Syntax Description

show	Show running system information
time-stamp	Time running-config last chnaged
running-config	Current operating configuration
last-changed	Running configuration last changed
__readonly__	(Optional) Read only
<i>run_config_change_time</i>	(Optional) Running-cfg last change timestamp

## Command Mode

- /exec

# show trace callhome

show trace callhome

## Syntax Description

show	Show XOS trace information
trace	Show logging configuration and contents of logfile
callhome	Show callhome logging configuration

## Command Mode

- /exec

# show track

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } [ __readonly__ { <show_track_start> { TABLE_track_detail
<st_obj_id> <st_obj_type> [ <st_obj_instance> ] <st_obj_param> <st_obj_timer_value> [ <st_obj_state> ]
[ <st_obj_chg_cnt> ] [ <st_last_chg_time> ] [ <st_threshold_info> ] [ <st_track_list_obj> ] + [ <st_vrf> ] [
<st_ipsla_rcode> ] [ <st_ipsla_rtt> ] [ <show_track_clnt_hdr> ] [ <show_track_clnt_start> ] [ {
TABLE_track_clnt_info <st_client_name> [ <st_client_iface> ] [ <st_client_group_id> ] [ <st_client_detail>
} ] } ] [ <show_track_clnt_end> ] [ <st_track_list_info> ] + <st_obj_up_delay> <st_obj_down_delay> }
<show_track_end> } ]
```

## Syntax Description

show	Negate a command or set its defaults
track	Tracking information
<i>object-id</i>	(Optional) Tracked object
interface	(Optional) Interface objects
ip	(Optional) IPv4 Protocol objects
route	(Optional) route (ipv4) objects
sla	(Optional) Service Level Agreement objects
ipv6	(Optional) IPv6 Protocol objects
routev6	(Optional) route (ipv6) objects
list	(Optional) Tracklist objects
boolean	(Optional) Boolean Traclist
and	(Optional) AND boolean objects
or	(Optional) OR boolean objects
threshold	(Optional) Threshold parameters
weight	(Optional) Threshold weight
percentage	(Optional) Threshold percentage
__readonly__	(Optional) Read only
<i>show_track_start</i>	(Optional) Show track start
TABLE_track_detail	(Optional) Track table detail
<i>st_obj_id</i>	(Optional) Object id
<i>st_obj_type</i>	(Optional) Object Type

<i>st_obj_instance</i>	(Optional) Object instance
<i>st_obj_param</i>	(Optional) Object parameter
<i>st_obj_timer_value</i>	(Optional) Current value of timer
<i>st_obj_state</i>	(Optional) Object status
<i>st_obj_chg_cnt</i>	(Optional) Count of Object state changes
<i>st_last_chg_time</i>	(Optional) Timestamp of last change
<i>st_threshold_info</i>	(Optional) Threshold Parameters
<i>st_track_list_obj</i>	(Optional) Objects part of this list
<i>st_vrf</i>	(Optional) VRF
<i>st_ipsla_rcode</i>	(Optional) IP SLA Return Code
<i>st_ipsla_rtt</i>	(Optional) IP SLA RTT
<i>show_track_clnt_hdr</i>	(Optional) Tracked by:
<i>show_track_clnt_start</i>	(Optional) Show track client start
TABLE_track_clnt_info	(Optional) Track client info
<i>st_client_name</i>	(Optional) Tracking client name
<i>st_client_iface</i>	(Optional) Tracking client interface
<i>st_client_group_id</i>	(Optional) Client group id
<i>st_client_detail</i>	(Optional) Tracking client detail
<i>show_track_clnt_end</i>	(Optional) End of track client
<i>st_track_list_info</i>	(Optional) Track list info
<i>st_obj_up_delay</i>	(Optional) Delay up notification
<i>st_obj_down_delay</i>	(Optional) Delay down notification
<i>show_track_end</i>	(Optional) End of Track

### Command Mode

- /exec

## show track brief

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } brief [ __readonly__ { <show_track_brf_start>
<show_track_brf_all_begin> { TABLE_track_brief<st_brf_obj_id> <st_brf_obj_type> <st_brf_obj_instance>
<st_brf_obj_param> <st_brf_obj_state> <st_brf_last_chg_time> } <show_track_brf_end> } ]
```

### Syntax Description

show	Negate a command or set its defaults
track	Tracking information
<i>object-id</i>	(Optional) Tracked object
interface	(Optional) Interface objects
ip	(Optional) IPv4 Protocol objects
route	(Optional) route (ipv4) objects
sla	(Optional) Service Level Agreement objects
ipv6	(Optional) IPv6 Protocol objects
routev6	(Optional) route (ipv6) objects
list	(Optional) Tracklist objects
boolean	(Optional) Boolean Traclist
and	(Optional) AND boolean objects
or	(Optional) OR boolean objects
threshold	(Optional) Threshold parameters
weight	(Optional) Threshold weight
percentage	(Optional) Threshold percentage
brief	Brief output
<i>__readonly__</i>	(Optional) Read only
<i>show_track_brf_start</i>	(Optional) Show track brief start
<i>show_track_brf_all_begin</i>	(Optional) Start of all brief
TABLE_track_brief	(Optional) Track table brief
<i>st_brf_obj_id</i>	(Optional) Object id
<i>st_brf_obj_type</i>	(Optional) Object Type

<i>st_brf_obj_instance</i>	(Optional) Object instance
<i>st_brf_obj_param</i>	(Optional) Object parameter
<i>st_brf_obj_state</i>	(Optional) Object status
<i>st_brf_last_chg_time</i>	(Optional) Timestamp of last change
<i>show_track_brf_end</i>	(Optional) End of Group

**Command Mode**

- /exec



## show troubleshoot l3 vrf

```
show troubleshoot l3 { ipv4 { <dip4-prefix> | <ip-prefix> } [ src-ip <sip4-prefix> ] | ipv6 { <dip6-prefix> | <ip6-prefix> } [ src-ip <sip6-prefix> ] } vrf <vrf-name>
```

### Syntax Description

show	
troubleshoot	Display troubleshoot data dump
l3	Display l3 information
ipv4	Choose IPv4 address
ipv6	Choose IPv6 address
<i>dip4-prefix</i>	Display single exact match route for Destination IP
<i>ip-prefix</i>	Display single exact match route, specify prefix/mask
vrf	check routes for a specific VRF
<i>vrf-name</i>	vrf name
src-ip	(Optional) Source IP for routing hash CLI
<i>sip4-prefix</i>	(Optional) Source IPv4 address

### Command Mode

- /exec

# show trunk protocol

show trunk protocol [ \_\_readonly\_\_ <trunk\_protocol\_status> ]

## Syntax Description

show	Show running system information
trunk	Show trunk information
protocol	Show trunk protocol information
__readonly__	(Optional)
<i>trunk_protocol_status</i>	(Optional) trunk protocol status

## Command Mode

- /exec

# show ttag brief

```
show ttag brief [ __readonly__ [ TABLE_ttag <ttag-ifindex> <state> ] <ttag-end> ]
```

## Syntax Description

<i>ttag</i>	enable ingress packet with ttag on this interface
<i>brief</i>	ttag port in brief list
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_ttag</i>	(Optional) ttag table
<i>ttag-ifindex</i>	(Optional) ttag ifindex
<i>state</i>	(Optional) TTAG state
<i>ttag-end</i>	(Optional) End of table

## Command Mode

- /exec





## U Show Commands

---

- [show uddl](#), on page 2844
- [show uddl global](#), on page 2846
- [show uddl neighbors](#), on page 2847
- [show user-account](#), on page 2848
- [show username keypair](#), on page 2849
- [show username passphrase timevalues](#), on page 2850
- [show userpassphrase](#), on page 2851
- [show userpassphrase](#), on page 2852
- [show users](#), on page 2853

## show uddl

```
show uddl [ <if0> ] [ __readonly__ TABLE_interface <interface> <mib-port-status> <mib-oper-status>
<mib-aggressive-mode> <admin-port-mode> <operational-port-mode> <current-bidirectional-state>
<current-operational-state> <no-multiple-neighbor-detected> <message-interval> <timeout-interval>
TABLE_entry [ <entry-number> ] [ <expiration-time> ] [ <device-id> ] [ <neighbor-state> ] [ <device-name>
] [ <port-id> ] [ <neighbor-echo-device-number> ] [ <neighbor-echo-device-name> ] [
<neighbor-echo-port-number> ] [ <neighbor-echo-port-id> ] [ <neighbor-message-interval> ] [
<neighbor-timeout-interval> ] [ <cdp-device-name> ] [ <pkt-xmt-rec-time> ] + [ <pc-index> ] ]
```

### Syntax Description

show	Show running system information
uddl	UDLD status and configuration on one or all interfaces
<i>if0</i>	(Optional) Enter an interface name if only one single interface status is desired
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>mib-port-status</i>	(Optional) Port MIB enable status
<i>mib-oper-status</i>	(Optional) Port MIB Operational status
<i>mib-aggressive-mode</i>	(Optional) Port MIB aggressive mode
<i>admin-port-mode</i>	(Optional) Port enable administration configuration setting
<i>operational-port-mode</i>	(Optional) Port enable operational state
<i>current-bidirectional-state</i>	(Optional) Current bidirectional state
<i>current-operational-state</i>	(Optional) Current operational state
<i>no-multiple-neighbor-detected</i>	(Optional) No multiple neighbor detected
<i>message-interval</i>	(Optional) UDLD probe message interval
<i>timeout-interval</i>	(Optional) UDLD detection timeout interval
TABLE_entry	(Optional) Neighbor entry info
<i>entry-number</i>	(Optional) Neighbor entry number
<i>expiration-time</i>	(Optional) Expiration time
<i>device-id</i>	(Optional) Device ID
<i>neighbor-state</i>	(Optional) Current neighbor state

<i>device-name</i>	(Optional) Device name
<i>port-id</i>	(Optional) Port ID
<i>neighbor-echo-device-number</i>	(Optional) Echo device number
<i>neighbor-echo-device-name</i>	(Optional) Echo device name
<i>neighbor-echo-port-number</i>	(Optional) Echo port number
<i>neighbor-echo-port-id</i>	(Optional) Echo port ID
<i>neighbor-message-interval</i>	(Optional) UDLD probe message interval
<i>neighbor-timeout-interval</i>	(Optional) UDLD detection timeout interval
<i>cdp-device-name</i>	(Optional) CDP Device name
<i>pkt-xmt-rec-time</i>	(Optional) Last UDLD packet send/recv time
<i>pc-index</i>	(Optional) Port channel index

**Command Mode**

- /exec

# show udd global

show udd global [ *\_\_readonly\_\_* <udld-global-mode> <message-interval> ]

## Syntax Description

show	Show running system information
udd	UDLD protocol
global	UDLD global status and configuration on all interfaces
<i>__readonly__</i>	(Optional)
<i>udld-global-mode</i>	(Optional) UDLD global configuration setting
<i>message-interval</i>	(Optional) UDLD probe message interval

## Command Mode

- /exec



# show udd neighbors

show udd neighbors [ *\_\_readonly\_\_* *TABLE\_entry* <local-port-id> <neighbor-echo-device-name> <device-id> <neighbor-echo-port-id> <neighbor-state> ]

## Syntax Description

show	Show running system information
udd	UDLD protocol
neighbors	UDLD neighbor interfaces
<i>__readonly__</i>	(Optional)
<i>TABLE_entry</i>	(Optional)
<i>local-port-id</i>	(Optional) Local port ID
<i>neighbor-echo-device-name</i>	(Optional) Echo device name
<i>device-id</i>	(Optional) Device ID
<i>neighbor-echo-port-id</i>	(Optional) Echo port ID
<i>neighbor-state</i>	(Optional) Current neighbor state

## Command Mode

- /exec

# show user-account

```
show user-account [ <s0> ] [ __readonly__ TABLE_template <usr_name> [ <expire_date> ] { TABLE_role
<role> } [ <remote_login> ] [ <sshkey_info> ] { [ TABLE_keys <ssh_keys> ] }
```

## Syntax Description

show	Show running system information
TABLE_template	(Optional)
TABLE_role	(Optional)
TABLE_keys	(Optional)
__readonly__	(Optional)
<i>usr_name</i>	(Optional) Name of the user
<i>expire_date</i>	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
<i>role</i>	(Optional) role/s which the user is to be assigned to
<i>remote_login</i>	(Optional) Remote account information for a remote user
<i>sshkey_info</i>	(Optional) SSH key information of user
<i>ssh_keys</i>	(Optional) SSH key pairs of the user
user-account	Show user information
<i>s0</i>	(Optional) User name

## Command Mode

- /exec

# show username keypair

```
show username <s0> keypair [ __readonly__ { TABLE_sessions <t_type> <t_time> <t_keys> <t_bitcount>
<t_fingerprint> } ]
```

## Syntax Description

show	Show running system information
username	Show user information.
keypair	Show SSH keypairs
<i>s0</i>	user name
__readonly__	(Optional)
TABLE_sessions	(Optional) username keypair
<i>t_type</i>	(Optional) keys type
<i>t_time</i>	(Optional) timestamp
<i>t_keys</i>	(Optional) ssh key
<i>t_bitcount</i>	(Optional) bitcount
<i>t_fingerprint</i>	(Optional) fingerprint

## Command Mode

- /exec

## show username passphrase timevalues

```
show username <username> passphrase timevalues [ __readonly__ [ timevalues [ <tvalue> ] ] [
passphrase_change <last_passphrase_change> ] [ Default_lifetime <def_ltime> ] [ Default_warntime
<def_wrntime> ] [ Default_gracetime <def_gtime> ] ]
```

### Syntax Description

show	Show running system information
username	Configure user information.
<i>username</i>	user name
passphrase	user passphrase
timevalues	passphrase lifetime, warningtime and gracetime
<i>__readonly__</i>	(Optional)
timevalues	(Optional) Timevalues of the Passphrase
<i>tvalue</i>	(Optional) Absolute time values of the Passphrase
passphrase_change	(Optional) passphrase last change date
<i>last_passphrase_change</i>	(Optional) absolute last passphrase change date
Default_lifetime	(Optional) Default Lifetime of the Passphrase
<i>def_ltime</i>	(Optional) Absolute life time value of the passphrase
Default_warntime	(Optional) Default Warningtime of the Passphrase
<i>def_wrntime</i>	(Optional) Absolute warning time value of the Passphrase
Default_gracetime	(Optional) Default Grace time of the Passphrase
<i>def_gtime</i>	(Optional) Absolute Grace time value of the Passphrase

### Command Mode

- /exec

# show userpassphrase

```
show userpassphrase { default-lifetime | default-warntime | default-gracetime | timevalues } [ __readonly__
[ Default_warntime <def_wrntime> ] [ Default_gracetime <def_gtime> ] [ Default_lifetime <def_ltime> ] ]
```

## Syntax Description

show	Show running system information
userpassphrase	user passphrase
default-lifetime	passphrase default lifetime
default-warntime	passphrase default warningtime
default-gracetime	passphrase default gracetime
timevalues	passphrase lifetime, warning time and gracetime
__readonly__	(Optional)
Default_warntime	(Optional) Default Warningtime of the Passphrase
<i>def_wrntime</i>	(Optional) Absolute warning time value of the Passphrase
Default_gracetime	(Optional) Default Grace time of the Passphrase
<i>def_gtime</i>	(Optional) Absolute Grace time value of the Passphrase
Default_lifetime	(Optional) Default Lifetime of the Passphrase
<i>def_ltime</i>	(Optional) Absolute life time value of the passphrase

## Command Mode

- /exec

# show userpassphrase

```
show userpassphrase { min-length | max-length | length } [ __readonly__ [ Minimum_length <min_length>
] [ Maximum_length <max_length> ] ]
```

## Syntax Description

show	Show running system information
userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
length	passphrase min and max length
__readonly__	(Optional)
Minimum_length	(Optional) minimum length of the passphrase
<i>min_length</i>	(Optional) Absolute value of the Minimum length
Maximum_length	(Optional) Maximum length of the passphrase
<i>max_length</i>	(Optional) Absolute value of max length

## Command Mode

- /exec

# show users

```
show users [ __readonly__ { TABLE_sessions <u_name> <t_terminal> <t_time> <t_idle> <p_pid>
<c_comment> } ]
```

## Syntax Description

show	Show running system information
users	Show the current users logged in the system
__readonly__	(Optional)
TABLE_sessions	(Optional) users table
<i>u_name</i>	(Optional) user name
<i>t_terminal</i>	(Optional) terminal
<i>t_time</i>	(Optional) time
<i>t_idle</i>	(Optional) idle
<i>p_pid</i>	(Optional) pid
<i>c_comment</i>	(Optional) comment

## Command Mode

- /exec







## V Show Commands

---

- [show vdc](#), on page 2857
- [show vdc current-vdc](#), on page 2859
- [show vdc fcoe-vlan-range](#), on page 2860
- [show vdc resource](#), on page 2861
- [show vdc resource](#), on page 2862
- [show vdc resource template](#), on page 2863
- [show version](#), on page 2864
- [show version epld](#), on page 2866
- [show version image](#), on page 2867
- [show version module](#), on page 2868
- [show virtual-service](#), on page 2869
- [show virtual-service storage pool list](#), on page 2872
- [show virtual-service tech-support](#), on page 2873
- [show virtual-service utilization name](#), on page 2874
- [show virtual-service version](#), on page 2875
- [show vlan](#), on page 2876
- [show vlan access-list](#), on page 2878
- [show vlan access-map](#), on page 2882
- [show vlan counters](#), on page 2883
- [show vlan dot1Q tag native](#), on page 2884
- [show vlan fcoe](#), on page 2885
- [show vlan filter](#), on page 2886
- [show vlan id](#), on page 2887
- [show vlan id counters](#), on page 2889
- [show vlan id vn-segment](#), on page 2891
- [show vlan name](#), on page 2892
- [show vlan private-vlan](#), on page 2894
- [show vlan private-vlan type](#), on page 2895
- [show vlan xbrief](#), on page 2896
- [show vlan xsummary](#), on page 2897
- [show vmtracker](#), on page 2898
- [show vmtracker certificate](#), on page 2900
- [show vmtracker fabric auto-config](#), on page 2901

- [show vmtracker status](#), on page 2902
- [show vpc](#), on page 2903
- [show vpc](#), on page 2906
- [show vpc consistency-parameters](#), on page 2907
- [show vpc consistency-parameters vlans](#), on page 2908
- [show vpc fabric-ports](#), on page 2909
- [show vpc orphan-ports](#), on page 2910
- [show vpc peer-keepalive](#), on page 2911
- [show vpc role](#), on page 2912
- [show vpc statistics peer-keepalive](#), on page 2913
- [show vpc statistics vpc](#), on page 2914
- [show vpc virtual-peerlink dest reachable](#), on page 2915
- [show vpc virtual-peerlink vlan consistency](#), on page 2916
- [show vrf](#), on page 2917
- [show vrf](#), on page 2918
- [show vrrp](#), on page 2920
- [show vrrp bfd-sessions](#), on page 2923
- [show vrrpv3](#), on page 2924
- [show vrrs client](#), on page 2928
- [show vrrs pathway](#), on page 2929
- [show vrrs server](#), on page 2930
- [show vrrs tag](#), on page 2931
- [show vsan](#), on page 2932
- [show vsan membership](#), on page 2933
- [show vsan membership interface](#), on page 2934
- [show vsan usage](#), on page 2935
- [show vtp counters](#), on page 2936
- [show vtp interface](#), on page 2937
- [show vtp password](#), on page 2938
- [show vtp status](#), on page 2939

# show vdc

```
{ show vdc [ <e-vdc2> ] [ feature-set | detail | membership [ all | status | module <module> ] | shared membership
] [ __readonly__ [ detail2 ] [ <swmode> ] { TABLE_vdc <vdc_id> <vdc_name> <state> <mac> <hap> <sw>
<boot_order> [ <prio> <prio_per> ] [ <create_time> ] [ <reload_count> ] [ <restart_count> ] [ <restart_time>
] [ <restart_reason> ] <vtype> <lc-support> [ TABLE_fs <fs_id> <fs_name> ] [ TABLE_port <port-list> ]
} ] }
```

## Syntax Description

show	Show Virtual Device Contexts
vdc	Show Virtual Device Contexts
<i>e-vdc2</i>	(Optional) Enter Virtual Device Context <vdc-id>
detail	(Optional) Show detailed vdc information
membership	(Optional) Show vdc interface membership information
shared	(Optional) Show the shared interfaces in a vdc
membership	(Optional) Show the shared interfaces in a vdc
module	(Optional) Show vdc interface membership information for a specific module only
<i>module</i>	(Optional) Show vdc interface membership information for a specific module only
status	(Optional) Show vdc related port-status
feature-set	(Optional) Show vdc feature-set information
all	(Optional) Show offline modules as well
<u>__readonly__</u>	(Optional) Read Only
detail2	(Optional)
<i>swmode</i>	(Optional)
TABLE_vdc	(Optional)
<i>vdc_id</i>	(Optional) vdc-id
TABLE_port	(Optional)
<i>port-list</i>	(Optional) port membership for VDC
<i>vdc_name</i>	(Optional) vdc-name
<i>state</i>	(Optional) state
<i>mac</i>	(Optional) mac address for VDC

<i>hap</i>	(Optional) hap policy
<i>sw</i>	(Optional) sw policy
<i>vtype</i>	(Optional)
<i>lc-support</i>	(Optional)
<i>create_time</i>	(Optional)
<i>reload_count</i>	(Optional)
<i>restart_count</i>	(Optional)
<i>restart_time</i>	(Optional)
<i>restart_reason</i>	(Optional)
TABLE_fs	(Optional)
<i>fs_id</i>	(Optional) fs id
<i>fs_name</i>	(Optional)
<i>boot_order</i>	(Optional)
<i>prio</i>	(Optional)
<i>prio_per</i>	(Optional)

### Command Mode

- /exec

# show vdc current-vdc

show vdc current-vdc [ \_\_readonly\_\_ <mode> <name> ]

## Syntax Description

show	Show Virtual Device Contexts
vdc	Show Virtual Device Contexts
current-vdc	Show which vdc you are currently in
__readonly__	(Optional) Read Only
<i>mode</i>	(Optional) cli mode
<i>name</i>	(Optional) vdc name

## Command Mode

- /exec

# show vdc fcoe-vlan-range

show vdc fcoe-vlan-range [ *\_\_readonly\_\_* <fcoe-vdc> [ <fcoe-vlans> ] [ <sharing-vdcs> ] ]

## Syntax Description

show	Show Virtual Device Contexts
vdc	Show Virtual Device Contexts
fcoe-vlan-range	vlans reserved for FCoE
<i>__readonly__</i>	(Optional) Read Only
<i>fcoe-vdc</i>	(Optional)
<i>sharing-vdcs</i>	(Optional)
<i>fcoe-vlans</i>	(Optional)

## Command Mode

- /exec

## show vdc resource

```
show vdc <id> resource [ <res-mgr-res-known-name> ] [ __readonly__ { TABLE_vdc_resource_single_vdc
<res_name> <min> <max> <used> <unused> <free> } ]
```

### Syntax Description

show	Show running system information
vdc	Show Virtual Device Contexts
<i>id</i>	Enter Virtual Device Context <vdc-id>
resource	Show resource configuration for VDC
<i>res-mgr-res-known-name</i>	(Optional) Resource name
<i>__readonly__</i>	(Optional) Read Only
<i>res_name</i>	(Optional) Resource Name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration
<i>used</i>	(Optional) Resource current usage for this VDC
<i>unused</i>	(Optional) Resource reserved for this VDC but currently not used
<i>free</i>	(Optional) Resource current free for this VDC
TABLE_vdc_resource_single_vdc	(Optional)

### Command Mode

- /exec

## show vdc resource

```
show vdc resource [ <res-mgr-res-known-name> ] [ detail | hidden-too | with-flags ] + [ __readonly__ {
TABLE_resource <resource_name> <total_used> <total_unused> <total_free> <total_avail> <total> [
TABLE_vdc_resource_across_vdcs <vdc_name> <min> <max> <used> <unused> <free> } } ]
```

### Syntax Description

show	Show running system information
vdc	Show Virtual Device Contexts
resource	Show resource configuration across VDCs
<i>res-mgr-res-known-name</i>	(Optional) Resource name
detail	(Optional) Show detail resource configuration
hidden-too	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
with-flags	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional) Read Only
TABLE_resource	(Optional)
<i>resource_name</i>	(Optional) Resource Name
<i>total_used</i>	(Optional) Resource current usage for all VDC
<i>total_unused</i>	(Optional) Resources currently reserved but not used across all VDC
<i>total_free</i>	(Optional) Resource current free for all VDC
<i>total_avail</i>	(Optional) Resource current available across all VDC
<i>total</i>	(Optional) Resources grand total
TABLE_vdc_resource_across_vdcs	(Optional)
<i>vdc_name</i>	(Optional) VDC name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration
<i>used</i>	(Optional) Resource current usage for this VDC
<i>unused</i>	(Optional) Resource reserved for this VDC but currently not used
<i>free</i>	(Optional) Resource current free for this VDC

### Command Mode

- /exec



# show vdc resource template

```
show vdc resource template [ <res-mgr-template-known-name-all> ] [ __readonly__ TABLE_template
<template_name> { TABLE_resource <resource_name> <min> <max> } ]
```

## Syntax Description

show	Show running system information
vdc	Show Virtual Device Contexts
resource	Show resource configuration for VDC
template	Resource template configuration
<i>res-mgr-template-known-name-all</i>	(Optional) Resource template name
<i>__readonly__</i>	(Optional) Read Only
TABLE_template	(Optional)
<i>template_name</i>	(Optional) Resource Template Name
TABLE_resource	(Optional)
<i>resource_name</i>	(Optional) Resource Name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration

## Command Mode

- /exec

## show version

```
show version [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str>
<nxos_ver_str> [ <sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <nxos_file_name> <kick_cmpl_time>
<nxos_cmpl_time> <kick_tmstamp> <nxos_tmstamp> [ <isan_file_name> ] [ <isan_cmpl_time> ] [
<isan_tmstamp> ] [ <boot_lxc_mode> ] <chassis_id> [ <module_id> ] <cpu_name> <memory> <mem_type>
<proc_board_id> <host_name> <bootflash_size> [ <slot0_size> ] [ <slot1_size> ] <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason>
<rr_sys_ver> <rr_service> <plugins> <manufacturer> [ TABLE_smu_list <install_smu_id> + ] [
TABLE_package_list <package_id> + ] ]
```

### Syntax Description

show	
version	Show the software version
<i>__readonly__</i>	(Optional)
<i>header_str</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>loader_ver_str</i>	(Optional)
<i>kickstart_ver_str</i>	(Optional)
<i>nxos_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>nxos_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>nxos_cmpl_time</i>	(Optional)
<i>kick_tmstamp</i>	(Optional)
<i>nxos_tmstamp</i>	(Optional)
<i>isan_file_name</i>	(Optional)
<i>isan_cmpl_time</i>	(Optional)
<i>isan_tmstamp</i>	(Optional)
<i>boot_lxc_mode</i>	(Optional)
<i>chassis_id</i>	(Optional)

<i>module_id</i>	(Optional)
<i>cpu_name</i>	(Optional)
<i>memory</i>	(Optional)
<i>mem_type</i>	(Optional)
<i>proc_board_id</i>	(Optional)
<i>host_name</i>	(Optional)
<i>bootflash_size</i>	(Optional)
<i>slot0_size</i>	(Optional)
<i>slot1_size</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)
<i>rr_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</i>	(Optional)
<i>plugins</i>	(Optional)
<i>manufacturer</i>	(Optional)
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional)
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name

### Command Mode

- /exec

# show version epld

```
show version epld <uri0> [ __readonly__ <image-info> [ { TABLE_module_info <module-type> <model>
<epld-device> <version> } ] ]
```

## Syntax Description

show	Show running system information
version	Show the software version
epld	Show EPLD versions available in EPLD image
<i>uri0</i>	Local URI containing EPLD Image
<i>__readonly__</i>	(Optional)
<i>image-info</i>	(Optional) image file info
TABLE_module_info	(Optional)
<i>module-type</i>	(Optional) module type
<i>model</i>	(Optional) model
<i>epld-device</i>	(Optional) epld device
<i>version</i>	(Optional) version

## Command Mode

- /exec

# show version image

```
show version image <uri0> [ __readonly__ <md5_str> <img_file_name> [ <bios_ver_str> ] <sys_ver_str>
<img_cmpl_time> [ <img_tmstamp> ] ]
```

## Syntax Description

show	Show running system information
version	Show the software version
image	Show the software version of a given image
<i>uri0</i>	Enter URI
<i>__readonly__</i>	(Optional)
<i>md5_str</i>	(Optional)
<i>img_file_name</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>img_cmpl_time</i>	(Optional)
<i>img_tmstamp</i>	(Optional)

## Command Mode

- /exec

# show version module

```
show version module <module> [ __readonly__ { TABLE_version <slot> <type> <sw> <interim> <bios> } ]
```

## Syntax Description

show	Show running system information
version	Show the software version
module	Show the software version of a Module
<i>module</i>	Enter module number
<i>__readonly__</i>	(Optional)
TABLE_version	(Optional) Show version info
<i>slot</i>	(Optional) Slot
<i>type</i>	(Optional) image type
<i>sw</i>	(Optional) SW version
<i>interim</i>	(Optional) SW interim version
<i>bios</i>	(Optional) BIOS version

## Command Mode

- /exec

## show virtual-service

```
show virtual-service [ { list } | { global } | { detail [ name <virt_serv_name> ] } | { core [ name
<virt_serv_name_core> ] } ] [ __readonly__ [ <infrastructure_major_version> <infrastructure_minor_version>
<total_virtual_services_installed> <total_virtual_services_activated> <machine_types_supported>
<machine_types_disabled> <maximum_vcpus_per_virtual_service> TABLE_resource_limits <media_name>
<quota> <committed> <available> ] [ TABLE_list <name> <status> <package_name> ] [ TABLE_detail
<name> <state> <package_name> <ova_path> <application_name> <application_version>
<application_description> <key_type> <signing_method> <licensing_name> <licensing_version>
<disk_reservation> <memory_reservation> <cpu_reservation> TABLE_attached_devices <type> <name>
<alias> ] [ TABLE_core <name> <name_core> ] ]
```

### Syntax Description

show	Show running system information
virtual-service	Display virtualization service information
global	(Optional) Virtual service global information
list	(Optional) List virtual services
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
core	(Optional) Core information
name	(Optional) Information for a specific virtual service
<i>virt_serv_name</i>	(Optional) Name of a virtual service
<i>virt_serv_name_core</i>	(Optional) Name of a virtual service
<i>__readonly__</i>	(Optional) Read Only
<i>infrastructure_major_version</i>	(Optional) Infrastructure major version
<i>infrastructure_minor_version</i>	(Optional) Infrastructure minor version
<i>total_virtual_services_installed</i>	(Optional) Total virtual services installed
<i>total_virtual_services_activated</i>	(Optional) Total virtual services activated
<i>maximum_vcpus_per_virtual_service</i>	(Optional) Maximum VCPUs per virtual service
<i>machine_types_supported</i>	(Optional) Machine types supported
<i>machine_types_disabled</i>	(Optional) Machine types disabled
TABLE_resource_limits	(Optional) Virtual service global resource limits
<i>media_name</i>	(Optional) Resource name
<i>quota</i>	(Optional) Resource Virtualization quota

<i>committed</i>	(Optional) Resource Virtualization committed
<i>available</i>	(Optional) Resource Virtualization available
TABLE_list	(Optional) Virtual service list table
<i>name</i>	(Optional) Virtual service name
<i>status</i>	(Optional) Virtual service status
<i>package_name</i>	(Optional) Virtual service package name
TABLE_detail	(Optional) Virtual service detail table
<i>name</i>	(Optional) Virtual service name
<i>package_name</i>	(Optional) Virtual service package name
<i>application_name</i>	(Optional) Name of the application
<i>application_version</i>	(Optional) Version of the application
<i>application_description</i>	(Optional) Description of the application
<i>key_type</i>	(Optional) Virtual service key type
<i>signing_method</i>	(Optional) Method used to sign the package
<i>licensing_name</i>	(Optional) Name of the license
<i>licensing_version</i>	(Optional) Version of the license
<i>ova_path</i>	(Optional) Virtual service OVA path
<i>state</i>	(Optional) Virtual service state
<i>disk_reservation</i>	(Optional) Virtual service disk reservation
<i>memory_reservation</i>	(Optional) Virtual service memory reservation
<i>cpu_reservation</i>	(Optional) Virtual service CPU reservation
TABLE_attached_devices	(Optional) Attached devices table
<i>type</i>	(Optional) Type of the attached device
<i>name</i>	(Optional) Name of the attached device
<i>alias</i>	(Optional) Alias for the attached device
TABLE_core	(Optional) Virtual service core table
<i>name</i>	(Optional) Virtual service name
<i>name_core</i>	(Optional) Name of core

**Command Mode**



- /exec

## show virtual-service storage pool list

```
show virtual-service storage pool list [ __readonly__ [ TABLE_storage <pool_name> <pool_type> <pool_path> ] ]
```

### Syntax Description

show	Show running system information
virtual-service	Display virtualization service storage pool information
storage	Storage information about virtual service
pool	Storage pool information about virtual service
list	List storage pool for virtual service
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_storage</i>	(Optional) Virtual service storage pool list table
<i>pool_name</i>	(Optional) Virtual service storage pool name
<i>pool_type</i>	(Optional) Virtual service storage pool type
<i>pool_path</i>	(Optional) Virtual service storage pool path

### Command Mode

- /exec

# show virtual-service tech-support

show virtual-service tech-support

## Syntax Description

show	Show running system information
virtual-service	Gather information for virtualization services trouble shooting
tech-support	Gather information for trouble shooting

## Command Mode

- /exec

## show virtual-service utilization name

```
show virtual-service utilization name <virt_serv_name> [ __readonly__ [ TABLE_cpu <request> <actual>
<state> ] [ TABLE_memory <allocation> <used> ] [ TABLE_storage <name> <alias> <capacity> <used>
<available> <usage> ] ]
```

### Syntax Description

show	Show running system information
virtual-service	Display virtualization service utilization information
utilization	Utilization information about virtual service
name	Utilization of a virtual service
<i>virt_serv_name</i>	Name of a virtual service
<i>__readonly__</i>	(Optional) Read Only
TABLE_storage	(Optional) Virtual service storage utilization
<i>name</i>	(Optional) storage device name
<i>alias</i>	(Optional) storage device alias
<i>capacity</i>	(Optional) Capacity 1k blocks
<i>used</i>	(Optional) Used 1k blocks
<i>available</i>	(Optional) Available 1k blocks
<i>usage</i>	(Optional) Usage
TABLE_memory	(Optional) Virtual service memory utilization
<i>allocation</i>	(Optional) Memory allocation
<i>used</i>	(Optional) Memory used
TABLE_cpu	(Optional) Virtual service cpu utilization
<i>request</i>	(Optional) Requested Application Utilization
<i>actual</i>	(Optional) Actual Application Utilization
<i>state</i>	(Optional) CPU state

### Command Mode

- /exec

## show virtual-service version

```
show virtual-service version { { installed } | { name <virt_serv_name> installed } } [ __readonly__
<virt_service_name> <application_name> <application_version> ]
```

### Syntax Description

show	Show running system information
virtual-service	Display virtualization service version information
version	Version information about virtual service
installed	Installed version
name	Version of a virtual service
<i>virt_serv_name</i>	Name of a virtual service
<i>__readonly__</i>	(Optional) Read Only
<i>virt_service_name</i>	(Optional) Virtual service name
<i>application_name</i>	(Optional) Application name
<i>application_version</i>	(Optional) Application version

### Command Mode

- /exec

## show vlan

```
show vlan [ controller ] [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbrief <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> + ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfo <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshowrspan-hdr1> ] [
<vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [ <vlanshowrspan-vlanbitmap> ] [ <pvlan-hdr> ] [
<pvlan-section> ] [ <pvlan-stby> ] <show-end> [ <true-end> ] ]
```

### Syntax Description

show	Show running system information
vlan	VLAN status
controller	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional) Read Only
TABLE_vlanbrief	(Optional) VLAN brief table format
TABLE_mtuinfo	(Optional) MTU information table format
<i>vlanshowbr-hdr</i>	(Optional) VLAN brief header
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanid-utf</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanname</i>	(Optional) VLAN brief VLAN name
<i>vlanshowbr-vlanstate</i>	(Optional) VLAN brief VLAN state
<i>vlanshowbr-shutstate</i>	(Optional) VLAN brief shutdown state
<i>vlanshowplist-ifidx</i>	(Optional) Port list ifindex
<i>vlanshowinfo-mtu-hdr</i>	(Optional) Vlan info mtu header
<i>vlanshowinfo-vlanid</i>	(Optional) Vlan info VLAN ID
<i>vlanshowinfo-media-type</i>	(Optional) Select media type
<i>vlanshowinfo-vlanmode</i>	(Optional) VLAN brief VLAN mode
<i>vlanshowrspan-hdr1</i>	(Optional) RSPAN VLAN header for one VLAN
<i>vlanshowrspan-hdr2</i>	(Optional) RSPAN VLAN header for multiple VLANs
<i>vlanshowrspan-vlantype</i>	(Optional) RSPAN VLAN one VLAN rspan or non-rspan
<i>vlanshowrspan-vlanbitmap</i>	(Optional) RSPAN VLAN multiple VLANs
<i>show-end</i>	(Optional) Show vlan end marker

<i>true-end</i>	(Optional) Show vlan end marker
<i>pvlan-hdr</i>	(Optional) private vlan section
<i>pvlan-section</i>	(Optional) private vlan section
<i>pvlan-stby</i>	(Optional) private vlan section on standby

**Command Mode**

- /exec

## show vlan access-list

```
show vlan access-list <name> [ <inp_seqno> ] [ __readonly__ TABLE_vacl <vacl_name> [ <vacl_seqno> ]
[ TABLE_list <ip_ipv6_mac> <acl_name> [ TABLE_seqno <seqno> { <permitdeny> [ <proto_str> | <proto>
| <ip> | <ipv6> ] } { <src_any> | <src_ip_prefix> | <src_ip_addr> <src_ip_mask> | <src_ipv6_prefix> |
<src_ipv6_addr> <src_ipv6_mask> | <mac_src> <mac_src_wild> | <src_addrgrp> } [ <src_port_op> [
<src_port1_str> ] { <src_port1_num> } [ <src_port2_str> | <src_port2_num> ] | <src_portgrp> ] { <dest_any>
| <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix> | <dest_ipv6_addr>
<dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp> } [ <dest_port_op> [ <dest_port1_str>
] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ { <icmp_type> [
<icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] [ <igmp_type> [
<igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str> ] ] [ <dscp> | <dscp_str> ] ] [
<ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op> <plen1> [ <plen2> ] ] [ <urg>
] [ <ack> ] [ <psh> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [ <http-method> | <http_opt_str> ] [
<tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange> ] [ <eth_proto> | <eth_proto_str>
] [ <vlan> ] [ <cos> ] [ <match_count> ] [ TABLE_match <module> <module_match_count> ] [ <nve_vni>
] [ <nve_vni> ] [ <label1> [ <label2> <label3> <label4> ] ] <remark> } ] [ <action> <actionid> ] ] ]
```

### Syntax Description

show	Show running system information
vlan	Vlan commands
access-list	Vlan access list
<i>name</i>	List name
<i>inp_seqno</i>	(Optional) Sequence number
<i>vacl_name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
<i>vacl_seqno</i>	(Optional) Sequence number
TABLE_vacl	(Optional)
TABLE_list	(Optional)
<i>ip_ipv6_mac</i>	(Optional) IP/iIPv6/MAC
<i>acl_name</i>	(Optional) Access list name
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
<i>proto</i>	(Optional) A protocol number
TABLE_seqno	(Optional)
<i>proto_str</i>	(Optional) Protocol name



<i>ip</i>	(Optional) IP
<i>ipv6</i>	(Optional) IPV6
<i>src_any</i>	(Optional) SRCAny
<i>dest_any</i>	(Optional) DESTAny
<i>src_ip_prefix</i>	(Optional) Source IP prefix
<i>src_ip_addr</i>	(Optional) Source IP address
<i>src_ip_mask</i>	(Optional) Source IP mask
<i>mac_src</i>	(Optional) Source MAC address
<i>mac_src_wild</i>	(Optional) Source MAC mask
<i>dest_ip_prefix</i>	(Optional) Destination IP prefix
<i>dest_ip_addr</i>	(Optional) Destination IP address
<i>dest_ip_mask</i>	(Optional) Destination IP mask
<i>mac_dest</i>	(Optional) Destination MAC address
<i>mac_dest_wild</i>	(Optional) Destination MAC mask
<i>src_port_op</i>	(Optional) Source Port operator
<i>dest_port_op</i>	(Optional) Destination Port operator
<i>src_port1_str</i>	(Optional) Source port name
<i>src_port1_num</i>	(Optional) Source port number
<i>src_port2_str</i>	(Optional) Source port name
<i>src_port2_num</i>	(Optional) Source port number
<i>dest_port1_str</i>	(Optional) Destination port name
<i>dest_port1_num</i>	(Optional) Destination port number
<i>dest_port2_str</i>	(Optional) Destination port name
<i>dest_port2_num</i>	(Optional) Destination port number
<i>icmp_type</i>	(Optional) ICMP type
<i>icmp_code</i>	(Optional) ICMP code
<i>icmp_str</i>	(Optional) ICMP message
<i>icmpv6_type</i>	(Optional) ICMP type
<i>icmpv6_code</i>	(Optional) ICMP code

<i>icmpv6_str</i>	(Optional) ICMP message
<i>igmp_type</i>	(Optional) IGMP type
<i>igmp_type_str</i>	(Optional) IGMP type String
<i>precedence</i>	(Optional) precedence
<i>precedence_str</i>	(Optional) precedence string
<i>tos</i>	(Optional) tos
<i>tos_str</i>	(Optional) tos string
<i>dscp</i>	(Optional) dscp
<i>dscp_str</i>	(Optional) dscp string
<i>udfs</i>	(Optional) udfs string
<i>ttl</i>	(Optional) ttl
<i>capture_session</i>	(Optional) capture session
<i>log</i>	(Optional) Log
<i>fragments</i>	(Optional) Fragments
<i>urg</i>	(Optional) URG
<i>ack</i>	(Optional) ACK
<i>psh</i>	(Optional) PSH
<i>rst</i>	(Optional) RST
<i>syn</i>	(Optional) SYN
<i>fin</i>	(Optional) FIN
<i>established</i>	(Optional) ESTABLISHED
<i>http-method</i>	(Optional) http-method
<i>http_opt_str</i>	(Optional) http_option string
<i>tcp-option-length</i>	(Optional) TCP Option size
<i>tcp-flags-mask</i>	(Optional) TCP Flags mask
<i>flow_label</i>	(Optional) IPv6 flow label
<i>timerange</i>	(Optional) Time-range
<i>eth_proto</i>	(Optional) MAC protocol number
<i>eth_proto_str</i>	(Optional) MAC protocol name

<i>vlan</i>	(Optional) VLAN number
<i>cos</i>	(Optional) CoS value
<i>match_count</i>	(Optional) Number of packets matching the ACL
TABLE_match	(Optional)
<i>module</i>	(Optional) Module name
<i>module_match_count</i>	(Optional) Number of packets matching the ACL
<i>nve_vni</i>	(Optional) nve vni
<i>remark</i>	(Optional) Remark String
<i>src_addrgrp</i>	(Optional) Source address group
<i>dest_addrgrp</i>	(Optional) Destination address group
<i>src_portgrp</i>	(Optional) Source port group
<i>dest_portgrp</i>	(Optional) Destination port group
<i>plen_op</i>	(Optional) Source Port operator
<i>plen1</i>	(Optional) Packet length minimum
<i>plen2</i>	(Optional) packet length maximum
<i>label1</i>	(Optional) mpls label one
<i>label2</i>	(Optional) mpls label two
<i>label3</i>	(Optional) mpls label three
<i>label4</i>	(Optional) mpls label four
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

**Command Mode**

- /exec

## show vlan access-map

```
show vlan access-map [ <name> ] [ __readonly__ [ TABLE_vacl <vacl_name> [ TABLE_seqno [ <seqno>
] [ <ip_ipv6_mac> { <match_name> } + [ <action_drop> ] [ <action_log> ] [ <action_fwd> ] [ <action_capture>
] [ <action_redirect> <intf> ] ] [ <statistics> ] ] ] ]
```

### Syntax Description

show	Show running system information
vlan	Vlan commands
access-map	List VLAN access maps
<i>name</i>	(Optional) List name
<i>vacl_name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
<i>seqno</i>	(Optional) Sequence number
TABLE_vacl	(Optional)
TABLE_seqno	(Optional)
<i>ip_ipv6_mac</i>	(Optional) IP/iIPV6/MAC
<i>match_name</i>	(Optional) Access list name
<i>action_drop</i>	(Optional) DROP
<i>action_log</i>	(Optional) LOG
<i>action_fwd</i>	(Optional) FWD
<i>action_capture</i>	(Optional) CAPTURE
<i>action_redirect</i>	(Optional) REDIRECT
<i>intf</i>	(Optional) Interface traffic is redirected to
<i>statistics</i>	(Optional) STATISTICS

### Command Mode

- /exec

# show vlan counters

```
show vlan counters [ __readonly__ { TABLE_vlancounters <vlanshowbr-vlanid> [ <l2_ing_ucast_b> ] [
<l2_ing_ucast_p> ] [ <l2_ing_mcast_b> ] [ <l2_ing_mcast_p> ] [ <l2_ing_bcast_b> ] [ <l2_ing_bcast_p> ]
[ <l2_egr_ucast_b> ] [ <l2_egr_ucast_p> ] [ <l3_ucast_rcv_b> ] [ <l3_ucast_rcv_p> ] [ <total_rcv_b> ] [
<total_rcv_p> ] [ <total_sent_b> ] [ <total_sent_p> ] } ]
```

## Syntax Description

show	Show running system information
vlan	Vlan commands
counters	display counters
__readonly__	(Optional) Read Only
TABLE_vlancounters	(Optional) vlan counters table format
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>l2_ing_ucast_b</i>	(Optional) L2 Ingress unicast octets
<i>l2_ing_ucast_p</i>	(Optional) L2 Ingress unicast packets
<i>l2_ing_mcast_b</i>	(Optional) L2 Ingress multicast octets
<i>l2_ing_mcast_p</i>	(Optional) L2 Ingress multicast packets
<i>l2_ing_bcast_b</i>	(Optional) L2 Ingress broadcast octets
<i>l2_ing_bcast_p</i>	(Optional) L2 Ingress broadcast packets
<i>l2_egr_ucast_b</i>	(Optional) L2 Egress unicast octets
<i>l2_egr_ucast_p</i>	(Optional) L2 Egress unicast packets
<i>l3_ucast_rcv_b</i>	(Optional) L3 unicast octets in
<i>l3_ucast_rcv_p</i>	(Optional) L3 unicast packets in
<i>total_rcv_b</i>	(Optional) Total octets in
<i>total_rcv_p</i>	(Optional) Total packets in
<i>total_sent_b</i>	(Optional) Total octets out
<i>total_sent_p</i>	(Optional) Total packets out

## Command Mode

- /exec

# show vlan dot1Q tag native

show vlan dot1Q tag native [ *\_\_readonly\_\_* <*tag\_native\_mode*> ]

## Syntax Description

show	Show running system information
vlan	VTP VLAN status
dot1Q	Display dot1q parameters
tag	Display tag parameters
native	Display native vlan tagging
<i>__readonly__</i>	(Optional) Read Only
<i>tag_native_mode</i>	(Optional) Native vlan tagging mode

## Command Mode

- /exec

# show vlan fcoe

```
show vlan fcoe [ <vlan-id> ] [ __readonly__ { TABLE_assoc <orig-id> <tran-id> <assoc-state> } ]
```

## Syntax Description

show	Show running system information
fcoe	FCOE Congiguration
vlan	Original VLAN Status
__readonly__	(Optional) Read Only
TABLE_assoc	(Optional) Association Table Format
<i>vlan-id</i>	(Optional) VLAN ID <1-4094>
<i>orig-id</i>	(Optional) Enter original VLAN-ID being associated with translated ID
<i>tran-id</i>	(Optional) Enter VSAN-ID being associated with VLAN-ID
<i>assoc-state</i>	(Optional) Show Association Status

## Command Mode

- /exec

## show vlan filter

```
show vlan filter [ access-map <name> | vlan <vlan> ] [ __readonly__ TABLE_vlan_filter <vacl_name>
<configured_vlans> ]
```

### Syntax Description

show	Show running system information
vlan	Vlan commands
filter	Information about VLAN filters
access-map	(Optional) Show the VLANs where an access-map is applied
<i>name</i>	(Optional) List name
vlan	(Optional) Show the access-map applied to a VLAN
<i>vlan</i>	(Optional) VLAN number
<i>__readonly__</i>	(Optional)
TABLE_vlan_filter	(Optional)
<i>vacl_name</i>	(Optional) List name
<i>configured_vlans</i>	(Optional) VLAN numbers

### Command Mode

- /exec



## show vlan id

```
show vlan id <vlan-id> [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefid <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> + ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfoid <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshow-vlanerrbitmap> ] [
<vlanshowrspan-hdr1> ] [ <vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [
<vlanshowrspan-vlanbitmap> ] [ <pvlan-hdr> ] [ <pvlan-id-section> ] [ <pvlan-stby> ] [ <is-vtp-manageable>
] [ <is-internal> ] [ <is-reserved> ] [ <is-rspan> ] [ <is-dynamic-gvrp> ] <show-end> [ <true-end> ] ]
```

### Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional) Read Only
TABLE_vlanbriefid	(Optional) VLAN brief table format
TABLE_mtuinfoid	(Optional) MTU information table format
<i>vlanshowbr-hdr</i>	(Optional) VLAN brief header
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanid-utf</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanname</i>	(Optional) VLAN brief VLAN name
<i>vlanshowbr-vlanstate</i>	(Optional) VLAN brief VLAN state
<i>vlanshowbr-shutstate</i>	(Optional) VLAN brief shutdown state
<i>vlanshowplist-ifidx</i>	(Optional) Port list ifindex
<i>vlanshowinfo-mtu-hdr</i>	(Optional) Vlan info mtu header
<i>vlanshowinfo-vlanid</i>	(Optional) Vlan info VLAN ID
<i>vlanshowinfo-media-type</i>	(Optional) Select media type
<i>vlanshowinfo-vlanmode</i>	(Optional) VLAN brief VLAN mode
<i>vlanshow-vlanerrbitmap</i>	(Optional) VLAN error bitmap
<i>vlanshowrspan-hdr1</i>	(Optional) RSPAN VLAN header for one VLAN
<i>vlanshowrspan-hdr2</i>	(Optional) RSPAN VLAN header for multiple VLANs
<i>vlanshowrspan-vlantype</i>	(Optional) RSPAN VLAN one VLAN rspan or non-rspan

<i>vlanshowrspan-vlanbitmap</i>	(Optional) RSPAN VLAN multiple VLANs
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker
<i>pvlan-hdr</i>	(Optional) private vlan section
<i>pvlan-id-section</i>	(Optional) private id vlan section
<i>pvlan-stby</i>	(Optional) private vlan section on standby
<i>is-vtp-manageable</i>	(Optional) VTP Manageable VLAN flag
<i>is-internal</i>	(Optional) Internal VLAN flag
<i>is-reserved</i>	(Optional) Reserved VLAN flag
<i>is-rspan</i>	(Optional) RSPAN VLAN flag
<i>is-dynamic-gvrp</i>	(Optional) Dynamic GVRP VLAN flag

**Command Mode**

- /exec

## show vlan id counters

```
show vlan id <vlan-id> counters [ __readonly__ { TABLE_vlancounters <vlanshowbr-vlanid> [
<l2_ing_ucast_b> ] [ <l2_ing_ucast_p> ] [ <l2_ing_mcast_b> ] [ <l2_ing_mcast_p> ] [ <l2_ing_bcast_b> ]
[ <l2_ing_bcast_p> ] [ <l2_egr_ucast_b> ] [ <l2_egr_ucast_p> ] [ <l3_ucast_rcv_b> ] [ <l3_ucast_rcv_p> ]
[ <total_rcv_b> ] [ <total_rcv_p> ] [ <total_sent_b> ] [ <total_sent_p> ] } ]
```

### Syntax Description

show	Show running system information
vlan	Vlan commands
id	VLAN status by VLAN id
counters	display counters
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<u>__readonly__</u>	(Optional) Read Only
TABLE_vlancounters	(Optional) vlan counters table format
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>l2_ing_ucast_b</i>	(Optional) L2 Ingress unicast octets
<i>l2_ing_ucast_p</i>	(Optional) L2 Ingress unicast packets
<i>l2_ing_mcast_b</i>	(Optional) L2 Ingress multicast octets
<i>l2_ing_mcast_p</i>	(Optional) L2 Ingress multicast packets
<i>l2_ing_bcast_b</i>	(Optional) L2 Ingress broadcast octets
<i>l2_ing_bcast_p</i>	(Optional) L2 Ingress broadcast packets
<i>l2_egr_ucast_b</i>	(Optional) L2 Egress unicast octets
<i>l2_egr_ucast_p</i>	(Optional) L2 Egress unicast packets
<i>l3_ucast_rcv_b</i>	(Optional) L3 unicast octets in
<i>l3_ucast_rcv_p</i>	(Optional) L3 unicast packets in
<i>total_rcv_b</i>	(Optional) Total octets in
<i>total_rcv_p</i>	(Optional) Total packets in
<i>total_sent_b</i>	(Optional) Total octets out
<i>total_sent_p</i>	(Optional) Total packets out

### Command Mode

- /exec

# show vlan id vn-segment

```
show vlan id <vlan-id> vn-segment [ __readonly__ <vlanshowinfo-segid-hdr> { TABLE_seginfoid
<vlanshowinfo-seg-vlanid> <vlanshowinfo-segment-id> } <show-end> [ <true-end> ] ]
```

## Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
vn-segment	Show vn-segment mapping
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_seginfoid</i>	(Optional) Segment id information table format
<i>vlanshowinfo-segid-hdr</i>	(Optional) Vlan info segment id header
<i>vlanshowinfo-seg-vlanid</i>	(Optional) Vlan info VLAN ID
<i>vlanshowinfo-segment-id</i>	(Optional) Vlan info SEGMENT ID
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

## Command Mode

- /exec

## show vlan name

```
show vlan name <vname> [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefname <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> + ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfofname <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshowrspan-hdr1> ] [
<vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [ <vlanshowrspan-vlanbitmap> ] <show-end> [
<true-end> ] ]
```

### Syntax Description

show	Show running system information
vlan	VLAN status
name	VLAN status by VLAN name
vname	A vlan name with size 32 (128 if long vlan name enabled)
__readonly__	(Optional) Read Only
TABLE_vlanbriefname	(Optional) VLAN brief table format
TABLE_mtuinfofname	(Optional) MTU information table format
vlanshowbr-hdr	(Optional) VLAN brief header
vlanshowbr-vlanid	(Optional) VLAN brief VLAN ID
vlanshowbr-vlanid-utf	(Optional) VLAN brief VLAN ID
vlanshowbr-vlanname	(Optional) VLAN brief VLAN name
vlanshowbr-vlanstate	(Optional) VLAN brief VLAN state
vlanshowbr-shutstate	(Optional) VLAN brief shutdown state
vlanshowplist-ifidx	(Optional) Port list ifindex
vlanshowinfo-mtu-hdr	(Optional) Vlan info mtu header
vlanshowinfo-vlanid	(Optional) Vlan info VLAN ID
vlanshowinfo-media-type	(Optional) Select media type
vlanshowinfo-vlanmode	(Optional) VLAN brief VLAN mode
vlanshowrspan-hdr1	(Optional) RSPAN VLAN header for one VLAN
vlanshowrspan-hdr2	(Optional) RSPAN VLAN header for multiple VLANs
vlanshowrspan-vlantype	(Optional) RSPAN VLAN one VLAN rspan or non-rspan
vlanshowrspan-vlanbitmap	(Optional) RSPAN VLAN multiple VLANs

<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

**Command Mode**

- /exec

## show vlan private-vlan

```
show vlan [ id <vlan-id> ] private-vlan [ __readonly__ [ { TABLE_pvlan_primary <vlan-key> [ <primary>
] [ <secondary> ] <pvlan-type> [ <ports> + ] } ] ]
```

### Syntax Description

show	Show running system information
vlan	VLAN status
id	(Optional) VLAN status by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
<i>__readonly__</i>	(Optional) Read Only
TABLE_pvlan_primary	(Optional) Pvlan primary vlan table
<i>vlan-key</i>	(Optional) Vlan key
<i>primary</i>	(Optional) Primary VLAN
<i>secondary</i>	(Optional) Secondary VLAN
<i>pvlan-type</i>	(Optional) PVLAN Type
<i>ports</i>	(Optional) Port list

### Command Mode

- /exec



# show vlan private-vlan type

```
show vlan [ id <vlan-id> ] private-vlan type [ __readonly__ [ { TABLE_pvlantype <vlan-num> <pvlan-type>
} ] ]
```

## Syntax Description

show	Show running system information
vlan	VLAN status
id	(Optional) VLAN status by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
type	Private VLAN type information
__readonly__	(Optional) Read Only
TABLE_pvlantype	(Optional) Pvlan type table
<i>vlan-num</i>	(Optional) vlan
<i>pvlan-type</i>	(Optional) PVLAN Type

## Command Mode

- /exec

## show vlan xbrief

```
show vlan xbrief [ controller | cli ] [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefxbrief
<vlanshowbr-vlanid> <vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate>
<vlanshowbr-shutstate> [ <vlanshowplist-ifidx> + ] } <show-end> [ <true-end> ] ]
```

### Syntax Description

show	Show running system information
vlan	VLAN status
xbrief	All VLAN status in brief
controller	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
cli	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional) Read Only
TABLE_vlanbriefxbrief	(Optional) VLAN brief table format
<i>vlanshowbr-hdr</i>	(Optional) VLAN brief header
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanid-utf</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanname</i>	(Optional) VLAN brief VLAN name
<i>vlanshowbr-vlanstate</i>	(Optional) VLAN brief VLAN state
<i>vlanshowbr-shutstate</i>	(Optional) VLAN brief shutdown state
<i>vlanshowplist-ifidx</i>	(Optional) Port list ifindex
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

### Command Mode

- /exec

# show vlan xsummary

```
show vlan xsummary [ __readonly__ <vlansum-all-vlan> <vlansum-vtp-vlan> <vlansum-ext-vlan>
<vlansum-max-supported-vlan> <vlansum-carved-vlan> <show-end> [ <true-end> ] ]
```

## Syntax Description

show	Show running system information
vlan	VLAN status
xsummary	VLAN summary information
<i>__readonly__</i>	(Optional) Read Only
<i>vlansum-all-vlan</i>	(Optional) Show vlan summary Total
<i>vlansum-vtp-vlan</i>	(Optional) Show vlan summary Number of normal vlans
<i>vlansum-ext-vlan</i>	(Optional) Show vlan summary Number of extended vlans
<i>vlansum-max-supported-vlan</i>	(Optional) Show vlan summary Max supported vlans
<i>vlansum-carved-vlan</i>	(Optional) Show vlan summary Number of carved sdn vlans
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

## Command Mode

- /exec

# show vmtracker

```
show vmtracker [ connection <conn_name> ] { { info { { [ interface <intf_id> ] { summary | detail | host |
vm | port-group } } | { vxlan-segment | vxlan-vms } } } | event-history } [ __readonly__ TABLE_info
<intf_name> <host_or_ip> <vmnic> <vm_name> <vm_state> <port_group> <pg_type> <vlan_range>
<virt_wire_name> <multicast_ip> <vdn_id> <vtep_ip> ]
```

## Syntax Description

<code>__readonly__</code>	(Optional)
<code>TABLE_info</code>	(Optional)
<code>intf_name</code>	(Optional)
<code>host_or_ip</code>	(Optional)
<code>vmnic</code>	(Optional)
<code>vm_name</code>	(Optional)
<code>vm_state</code>	(Optional)
<code>port_group</code>	(Optional)
<code>pg_type</code>	(Optional)
<code>vlan_range</code>	(Optional)
<code>virt_wire_name</code>	(Optional)
<code>multicast_ip</code>	(Optional)
<code>vdn_id</code>	(Optional)
<code>vtep_ip</code>	(Optional)
<code>show</code>	Show running system information
<code>vmtracker</code>	Show vmtracker info
<code>connection</code>	(Optional) Show vmtracker configured connections
<code>conn_name</code>	(Optional) Show vmtracker Connection name
<code>info</code>	Display vmtracker information
<code>interface</code>	(Optional) Display vmtracker interface information
<code>intf_id</code>	(Optional) Interface name to display
<code>summary</code>	Display a summary of vmtracker information
<code>detail</code>	Display vmtracker information details

host	Display vmtracker host information
vm	Display vmtracker related Virtual Machine information
port-group	Display vmtracker related port-group information
vxlan-segment	Print all segment info
vxlan-vms	Print all vm info
event-history	Display vmtracker related event-history

**Command Mode**

- /exec

# show vmtracker certificate

show vmtracker certificate [ *\_\_readonly\_\_* *TABLE\_cert* <certificate> ]

## Syntax Description

<i>__readonly__</i>	(Optional)
<i>TABLE_cert</i>	(Optional)
<i>certificate</i>	(Optional)
show	Show running system information
vmtracker	VMTRACKER commands
certificate	Show the default certificate used

## Command Mode

- /exec

## show vmtracker fabric auto-config

```
show vmtracker fabric auto-config [ interface <intf_id> ] [ vlan <vlan_id> ] [ status { success | pending |
failure | skipped } ] [ __readonly__ TABLE_autoconfig <interface_name> <port_group_name> <vlan_range>
<config_status> ]
```

### Syntax Description

<code>__readonly__</code>	(Optional)
<code>TABLE_autoconfig</code>	(Optional)
<code>interface_name</code>	(Optional)
<code>port_group_name</code>	(Optional)
<code>vlan_range</code>	(Optional)
<code>config_status</code>	(Optional)
show	Show running system information
vmtracker	VMTRACKER commands
fabric	VM Tracker Fabric paramters
auto-config	VM Tracker Fabric AutoConfiguration
interface	(Optional) Display vmtracker interface information
<code>intf_id</code>	(Optional) Interface name to display
vlan	(Optional) vlan to display
<code>vlan_id</code>	(Optional) VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
status	(Optional) Auto-config status
success	(Optional) Success
pending	(Optional) Pending
failure	(Optional) Failure
skipped	(Optional) Skipped

### Command Mode

- /exec

# show vmtracker status

```
show vmtracker [ connection <conn_name> ] status [ __readonly__ { TABLE_connection <name> <host_or_ip>
<conn_status> } ]
```

## Syntax Description

<i>__readonly__</i>	(Optional)
TABLE_connection	(Optional)
<i>name</i>	(Optional)
<i>host_or_ip</i>	(Optional)
<i>conn_status</i>	(Optional)
show	Show running system information
vmtracker	Show vmtracker info
connection	(Optional) Show vmtracker configured connections
<i>conn_name</i>	(Optional) Show vmtracker Connection name
status	Show vmtracker connection status

## Command Mode

- /exec



# show vpc

```
show vpc [ brief ] [ __readonly__ <vpc-domain-id> [ <vpc-l2mp-switch-id> ] <vpc-peer-status>
<vpc-peer-status-reason> <vpc-peer-keepalive-status> [ <vpc-peer-l2mp-status> ] <vpc-peer-consistency> {
[ <vpc-peer-consistency-reason> ] [ <vpc-per-vlan-peer-consistency> ] <vpc-peer-consistency-status> }
<vpc-type-2-consistency> { [ <vpc-type-2-consistency-reason> ] <vpc-type-2-consistency-status> } <vpc-role>
<num-of-vpcs> [ <track-obj> ] [ <peer-gateway> ] [ <peer-gateway-excluded-vlans> ]
<dual-active-excluded-vlans> <vpc-graceful-consistency-check-status> [ <vpc-auto-recovery-status> ] [
<vpc-delay-restore-status> ] [ <vpc-delay-restore-svi-status> ] [ <vpc-delay-peer-link-status> ]
<operational-l3-peer> [ <vpc-scale-high-status> ] [ <fp-enhanced-load-balancing> ] [
<vpc-per-vlan-peer-consistency> ] [ <virtual-peerlink> ] [ <vpc-peer-link-hdr> [ { TABLE_peerlink
<peer-link-id> <peerlink-ifindex> <peer-link-port-state> <peer-up-vlan-bitset> } ] <vpc-end> ] [ <vpc-hdr>
[ <vpc-is-es> ] [ <vpc-not-es> ] [ { TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state>
<phy-port-if-removed><vpc-thru-peerlink> <vpc-consistency> { [ <vpc-consistency-reason> ] [
<vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> } ] <vpc-end> ] ]
```

## Syntax Description

vpc	Virtual Port Channel configuration
brief	(Optional) Brief display of vPC status
__readonly__	(Optional) Read Only
TABLE_peerlink	(Optional) vPC peerlink table
TABLE_vpc	(Optional) vPC table
vpc-domain-id	(Optional) vPC domain id
vpc-l2mp-switch-id	(Optional) vPC+ switch ID
vpc-peer-status	(Optional) vPC peer status
vpc-peer-status-reason	(Optional) vPC peer status reason
vpc-peer-keepalive-status	(Optional) vpc peer keepalive status
vpc-peer-l2mp-status	(Optional) vPC fabricpath status
vpc-role	(Optional) vPC role
peer-gateway	(Optional) Peer gateway status
peer-gateway-excluded-vlans	(Optional) peer-gateway excluded VLANs
dual-active-excluded-vlans	(Optional) dual-active excluded VLANs
fp-enhanced-load-balancing	(Optional) Fabricpath enhanced load balancing status
num-of-vpcs	(Optional) Number of vPCs configured
track-obj	(Optional) Track object for vPC

<i>vpc-graceful-consistency-check-status</i>	(Optional) vPC graceful consistency check
<i>vpc-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-peer-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-per-vlan-peer-consistency</i>	(Optional) vPC per-vlan global configuration consistency
<i>vpc-type-2-consistency</i>	(Optional) vPC type-2 configuration consistency status
<i>vpc-type-2-consistency-reason</i>	(Optional) vPC type-2 configuration consistency reason
<i>vpc-type-2-consistency-status</i>	(Optional) vPC type-2 configuration consistency status
<i>operational-l3-peer</i>	(Optional) Operational Layer 3 peer status
<i>virtual-peerlink</i>	(Optional) Virtual peerlink status
<i>vpc-scale-high-status</i>	(Optional) vPC scale high status
<i>vpc-hdr</i>	(Optional) Start of vPC table
<i>vpc-is-es</i>	(Optional) Flag to indicate vPC+ complex
<i>vpc-not-es</i>	(Optional) Flag to indicate vPC complex
<i>vpc-peer-link-hdr</i>	(Optional) Start of vPC peer-link table
<i>vpc-port-state</i>	(Optional) vPC port state
<i>vpc-end</i>	(Optional) End of table
<i>vpc-id</i>	(Optional) vPC id
<i>vpc-ifindex</i>	(Optional) vPC ifindex
<i>peer-link-id</i>	(Optional) peer link id
<i>peerlink-ifindex</i>	(Optional) peer link ifindex
<i>peer-link-port-state</i>	(Optional) peer-link port state
<i>peer-up-vlan-bitset</i>	(Optional) peer link UP VLAN bitset
<i>up-vlan-bitset</i>	(Optional) vPC UP VLAN bitset
<i>es-attr</i>	(Optional) vPC+ attributes
<i>vpc-auto-recovery-status</i>	(Optional) Auto-recovery status

<i>vpc-delay-restore-status</i>	(Optional) Delay-resotre status
<i>vpc-delay-restore-svi-status</i>	(Optional) Dealy-restore-svi status
<i>vpc-delay-peer-link-status</i>	(Optional) Delay-peer-link status

**Command Mode**

- /exec

# show vpc

```
show vpc { <vpc-number> | brief vpc <vpc-number> } [ __readonly__ [ <vpc-hdr> ] [ <vpc-is-es> ] [ <vpc-not-es> ] [ TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state> <phy-port-if-removed><vpc-thru-peerlink> <vpc-consistency> { [ <vpc-consistency-reason> ] [ <vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> ] <vpc-end> ]
```

## Syntax Description

vpc	Virtual Port Channel configuration
brief	Brief display of vPC status
<i>vpc-number</i>	Enter a Virtual Port Channel number
<i>__readonly__</i>	(Optional) Read Only
<i>vpc-hdr</i>	(Optional) Start of vPC table
<i>vpc-is-es</i>	(Optional) Flag to indicate vPC+ complex
<i>vpc-not-es</i>	(Optional) Flag to indicate vPC complex
TABLE_vpc	(Optional) vPC table
<i>vpc-id</i>	(Optional) vPC id
<i>vpc-ifindex</i>	(Optional) vPC ifindex
<i>vpc-port-state</i>	(Optional) vPC port state
<i>vpc-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-consistency-status</i>	(Optional) vPC consistency reason
<i>up-vlan-bitset</i>	(Optional) vPC UP VLAN bitset
<i>es-attr</i>	(Optional) vPC+ attributes
<i>vpc-end</i>	(Optional) End of table

## Command Mode

- /exec

## show vpc consistency-parameters

```
show vpc consistency-parameters { global | vni | interface <if> | vpc <vpc-num> } [ __readonly__
TABLE_vpc_consistency <vpc-param-name> <vpc-param-type> <vpc-param-local-val> <vpc-param-peer-val>
]
```

### Syntax Description

vpc	Virtual Port Channel configuration
consistency-parameters	Show vPC Consistency Parameters
global	Global Parameters
vni	Show vPC Consistency Parameters vni
<i>if</i>	
<i>vpc-num</i>	Enter a Virtual Port Channel number
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_vpc_consistency</i>	(Optional) vPC table
<i>vpc-param-name</i>	(Optional)
<i>vpc-param-type</i>	(Optional)
<i>vpc-param-local-val</i>	(Optional)
<i>vpc-param-peer-val</i>	(Optional)

### Command Mode

- /exec

## show vpc consistency-parameters vlans

```
show vpc consistency-parameters vlans [ vnseg ] [ __readonly__ TABLE_vpc_consistency <vpc-param-name>
<vpc-param-type> [ <reason_code> ] [ <syserr> ] <vpc-pass-vlans> [ <reason_code> ] ]
```

### Syntax Description

vpc	Virtual Port Channel configuration
consistency-parameters	Show vPC Consistency Parameters
vlans	vlans
vnseg	(Optional) Display vlan to vn-segment map
__readonly__	(Optional) Read Only
TABLE_vpc_consistency	(Optional) vPC table
<i>vpc-param-name</i>	(Optional)
<i>vpc-param-type</i>	(Optional)
<i>vpc-pass-vlans</i>	(Optional)
<i>syserr</i>	(Optional) vPC consistency reason
<i>reason_code</i>	(Optional) vPC consistency reason

### Command Mode

- /exec

# show vpc fabric-ports

```
show vpc fabric-ports [ __readonly__ [ { TABLE_fabric_ports <vpc-fabric-ports> } ] ]
```

## Syntax Description

vpc	Virtual Port Channel configuration
fabric-ports	Show ports that are part of uplink virtual-peerlink
__readonly__	(Optional) Read Only
TABLE_fabric_ports	(Optional) vPC fabric ports table
<i>vpc-fabric-ports</i>	(Optional) description of the port

## Command Mode

- /exec

## show vpc orphan-ports

```
show vpc orphan-ports [ __readonly__ [ { TABLE_orphan_ports <vpc-vlan> <vpc-orphan-ports> } ] ]
```

### Syntax Description

vpc	Virtual Port Channel configuration
orphan-ports	Show ports that are not part of vPC but have common VLANs
__readonly__	(Optional) Read Only
TABLE_orphan_ports	(Optional) vPC orphan ports table
vpc-vlan	(Optional) port vlan
vpc-orphan-ports	(Optional) description of the port

### Command Mode

- /exec



## show vpc peer-keepalive

```
show vpc peer-keepalive [ __readonly__ <vpc-peer-keepalive-status> <vpc-keepalive-dest>
<vpc-keepalive-send-interface> <vpc-keepalive-receive-interface> <vpc-keepalive-send-tstamp>
<vpc-keepalive-receive-tstamp> <vpc-peer-keepalive-up-time> <vpc-keepalive-send-status>
<vpc-keepalive-receive-status> <vpc-keepalive-lastupdate> [ <vpc-keepalive-dest> ] <vpc-keepalive-interval>
<vpc-keepalive-timeout> <vpc-keepalive-hold-timeout> <vpc-keepalive-vrf> <vpc-keepalive-udp-port>
<vpc-keepalive-tos> ]
```

### Syntax Description

vpc	Virtual Port Channel configuration
peer-keepalive	vPC keepalive status
__readonly__	(Optional) Read Only
<i>vpc-peer-keepalive-status</i>	(Optional) vpc peer keepalive status
<i>vpc-keepalive-dest</i>	(Optional) vPC keepalive destination ip address
<i>vpc-keepalive-send-status</i>	(Optional) vPC keepalive send status
<i>vpc-keepalive-receive-status</i>	(Optional) vPC keepalive receive status
<i>vpc-peer-keepalive-up-time</i>	(Optional) keepalive- alive time
<i>vpc-keepalive-send-tstamp</i>	(Optional) vPC keepalive last send timestamp
<i>vpc-keepalive-send-interface</i>	(Optional) vPC keepalive send interface
<i>vpc-keepalive-receive-tstamp</i>	(Optional) vPC keepalive last receive timestamp
<i>vpc-keepalive-receive-interface</i>	(Optional) vPC keepalive receive interface
<i>vpc-keepalive-lastupdate</i>	(Optional) vPC keepalive last update from peer
<i>vpc-keepalive-interval</i>	(Optional) vPC keepalive timeout
<i>vpc-keepalive-timeout</i>	(Optional) vPC keepalive interval
<i>vpc-keepalive-hold-timeout</i>	(Optional) hold timeout
<i>vpc-keepalive-vrf</i>	(Optional) vrf name
<i>vpc-keepalive-udp-port</i>	(Optional) udp port
<i>vpc-keepalive-tos</i>	(Optional) tos value

### Command Mode

- /exec

# show vpc role

```
show vpc role [ __readonly__ <vpc-peer-status> <vpc-peer-status-reason> [ <vpc-current-role> ] [
<vpc-es-current-role> ] <dual-active-detected> <vpc-system-mac> <vpc-system-prio> <vpc-local-system-mac>
<vpc-local-system-prio><vpc-local-role-prio> <vpc-peer-system-mac>
<vpc-peer-system-prio><vpc-peer-role-prio> ]
```

## Syntax Description

vpc	Virtual Port Channel configuration
role	vPC role status
__readonly__	(Optional) Read Only
<i>vpc-peer-status</i>	(Optional) vPC peer status
<i>vpc-peer-status-reason</i>	(Optional) vPC peer status reason
<i>vpc-current-role</i>	(Optional) vPC role
<i>vpc-es-current-role</i>	(Optional) vPC role
<i>dual-active-detected</i>	(Optional) Dual active detection status
<i>vpc-system-mac</i>	(Optional) vPC system mac
<i>vpc-local-system-mac</i>	(Optional) vPC local system mac
<i>vpc-peer-system-mac</i>	(Optional) vPC peer system mac
<i>vpc-system-prio</i>	(Optional) vPC system priority

## Command Mode

- /exec

## show vpc statistics peer-keepalive

show vpc statistics peer-keepalive [ *\_\_readonly\_\_* <vpc-peer-keepalive-status> <vpc-keepalive-counters-tx> <vpc-keepalive-counters-rx> <vpc-keepalive-avg-rx-interval> <vpc-keepalive-peer-state-changes> ]

### Syntax Description

vpc	Virtual Port Channel configuration
statistics	Statistics
peer-keepalive	peer keepalive module related statistics
<i>__readonly__</i>	(Optional) Read Only
<i>vpc-peer-keepalive-status</i>	(Optional) vpc peer keepalive status
<i>vpc-keepalive-counters-tx</i>	(Optional) tx counters
<i>vpc-keepalive-counters-rx</i>	(Optional) rx counters
<i>vpc-keepalive-avg-rx-interval</i>	(Optional) avg rx interval in ms
<i>vpc-keepalive-peer-state-changes</i>	(Optional) peer state changes

### Command Mode

- /exec

# show vpc statistics vpc

show vpc statistics { vpc <vpc\_num> | peer-link }

## Syntax Description

vpc	Virtual Port Channel configuration
statistics	Statistics
<i>vpc_num</i>	Virtual Port Channel number
peer-link	stats for peer-link

## Command Mode

- /exec

# show vpc virtual-peerlink dest reachable

show vpc virtual-peerlink dest reachable

## Syntax Description

show	Show running system information
vpc	vPC related information
virtual-peerlink	virtual-peerlink Related show commands
dest	dest info
reachable	dest reachability

## Command Mode

- /exec

# show vpc virtual-peerlink vlan consistency

show vpc virtual-peerlink vlan consistency

## Syntax Description

show	Show running system information
vpc	vPC related information
virtual-peerlink	virtual-peerlink Related show commands
vlan	vlan info for vPC
consistency	vlan vni consistency

## Command Mode

- /exec

# show vrf

show vrf [ <vrf-name> | <vrf-known-name> | all ]

## Syntax Description

show	Show running system information
vrf	Display VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display VRF information for all VRFs

## Command Mode

- /exec

# show vrf

```
show vrf [ <vrf-name> | <vrf-known-name> | all ] [ order id ] [ detail ] [ passive ] [ __readonly__ TABLE_vrf
<vrf_name> <vrf_id> <vrf_state> [ <vrf_reason> ] [ <vrf_pend> ] [ <vpnid> <rd> [ <vni> ] <max_routes>
<mid_threshold> ] [ { TABLE_tib <tib_id> <tib_af> <tib_nonce> <tib_state> [ <tib_reason> ] [ <tib_pend>
} ] ] ]
```

## Syntax Description

show	Show running system information
vrf	Display VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display VRF information for all VRFs
order	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
id	(Optional) Order by ID
detail	(Optional) Display VRF detail information
passive	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_vrf	(Optional)
TABLE_tib	(Optional)
<i>vrf_name</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_state</i>	(Optional)
<i>vrf_reason</i>	(Optional)
<i>vrf_pend</i>	(Optional)
<i>vpnid</i>	(Optional)
<i>rd</i>	(Optional)
<i>max_routes</i>	(Optional)
<i>mid_threshold</i>	(Optional)
<i>tib_id</i>	(Optional)
<i>tib_af</i>	(Optional)



<i>tib_nonce</i>	(Optional)
<i>tib_state</i>	(Optional)
<i>tib_reason</i>	(Optional)
<i>tib_pend</i>	(Optional)
<i>vni</i>	(Optional)

**Command Mode**

- /exec

## show vrrp

```
show vrrp [ [ summary ] | { [ statistics | detail ] [ interface <interface_id> ] [ vr <vr_id> ] [ master | backup |
init ] + } ] [ __readonly__ [ [ TABLE_vrrp_group <sh_if_index> <sh_group_id> <sh_group_type>
<sh_group_state> <sh_group_preempt> <sh_vip_addr> { [ TABLE_sec_vip_addr <sh_sec_vip_addr> } ] }
<sh_priority> [ <sh_cfg_priority> <sh_fwd_thr_lower> <sh_fwd_thr_upper> ] <sh_adv_interval> [
<sh_auth_text> ] [ <sh_vmac> ] [ <sh_master_router> ] [ <sh_native_track_intf> <sh_native_track_priotiry>
] { [ TABLE_vrrp_track <sh_track_object_id> <sh_decrement_priority> <sh_track_object_state> ] } [
<sh_bfd_status> <sh_bfd_session> ] ] [ { TABLE_vrrp_statistics [ <if_index> ] [ <grp_id> ] [ <grp_type> ]
[ <master_cnt> ] [ <adv_pkts> ] [ <adv_intv_mismatch> ] [ <auth_failure> ] [ <ttl_err> ] [ <zero_pri_adv_rcvd>
] [ <zero_pri_adv_sent> ] [ <type_fl_mismatch> ] [ <addr_mismatch> ] [ <inv_auth> ] [ <auth_mismatch>
] [ <inv_pkt_len> ] } ] [ <total_num_of_grp> ] [ <init_grps> ] [ <backup_grps> ] [ <master_grps> ] [
<vrrp_enabled_ifs> ] [ <mts_rx> ] [ <mts_tx> ] [ <pkt_rx> ] [ <pkt_tx> ] ] + ]
```

### Syntax Description

show	Show running system information
vrrp	Show vrrp information
summary	(Optional) Show vrrp summary
statistics	(Optional) Show vrrp statistics
detail	(Optional) Show detailed information
interface	(Optional) Show vrrp info for the interface
<i>interface_id</i>	(Optional)
vr	(Optional) Show vrrp info for the group
<i>vr_id</i>	(Optional) [1-255] enter IPv4 vr group
master	(Optional) Groups in Master state
backup	(Optional) Groups in Backup state
init	(Optional) Groups in Init state
__readonly__	(Optional) Read only
TABLE_vrrp_group	(Optional) Group detail table
<i>sh_if_index</i>	(Optional) Interface type and number
<i>sh_group_id</i>	(Optional) Group number
<i>sh_group_type</i>	(Optional) Group type
<i>sh_group_state</i>	(Optional) VRRP group state
<i>sh_group_preempt</i>	(Optional) Group preemption statue

<i>sh_vip_addr</i>	(Optional) Virtual IP Address
TABLE_sec_vip_addr	(Optional) Secondary virtual ip address table
<i>sh_sec_vip_addr</i>	(Optional) Secondary virtual ip address
<i>sh_priority</i>	(Optional) Priority of VRRP group
<i>sh_auth_text</i>	(Optional) Authentication text
<i>sh_cfg_priority</i>	(Optional) Configured priority of VRRP group
<i>sh_fwd_thr_lower</i>	(Optional) Lower forwarding threshold
<i>sh_fwd_thr_upper</i>	(Optional) Upper forwarding threshold
<i>sh_adv_interval</i>	(Optional) Advertisement interval
<i>sh_vmac</i>	(Optional) Virtual MAC
<i>sh_master_router</i>	(Optional) Master router
<i>sh_native_track_intf</i>	(Optional) Native tracked interface
<i>sh_native_track_priotiry</i>	(Optional) Decrement priority for Native tracking
TABLE_vrrp_track	(Optional) VRRP tracking table
<i>sh_track_object_id</i>	(Optional) Object id of tracking object
<i>sh_decrement_priority</i>	(Optional) Decrement priority
<i>sh_track_object_state</i>	(Optional) Tracking object state
<i>sh_bfd_status</i>	(Optional) BFD status
<i>sh_bfd_session</i>	(Optional) BFD session status
TABLE_vrrp_statistics	(Optional) VRRP statistics table
<i>if_index</i>	(Optional) Interface type and number
<i>grp_id</i>	(Optional) Group number
<i>grp_type</i>	(Optional) Group type
<i>master_cnt</i>	(Optional) VRRP Master
<i>adv_pkts</i>	(Optional) Advertisement pkts
<i>adv_intv_mismatch</i>	(Optional) Advertisement interval mismatch
<i>auth_failure</i>	(Optional) Auth failure
<i>ttl_err</i>	(Optional) TTL error
<i>zero_pri_adv_rcvd</i>	(Optional) Zero pri adv received

<i>zero_pri_adv_sent</i>	(Optional) Zero pri adv sent
<i>type_fl_mismatch</i>	(Optional) Invalid type field
<i>addr_mismatch</i>	(Optional) Address mismatch
<i>inv_auth</i>	(Optional) Invalid auth type
<i>auth_mismatch</i>	(Optional) Authentication mismatch
<i>inv_pkt_len</i>	(Optional) Invalid pkt length
<i>total_num_of_grp</i>	(Optional) Total Number of Groups Configured
<i>init_grps</i>	(Optional) Init groups
<i>backup_grps</i>	(Optional) Backup groups
<i>master_grps</i>	(Optional) Master groups
<i>vrrp_enabled_ifs</i>	(Optional) Number of VRRP enabled interfaces
<i>mts_rx</i>	(Optional) Total MTS Rx
<i>mts_tx</i>	(Optional) Total MTS Tx
<i>pkt_rx</i>	(Optional) Total Pkt Rx
<i>pkt_tx</i>	(Optional) Total Pkt Tx

### Command Mode

- /exec

## show vrrp bfd-sessions

```
show vrrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <session_state> <ref_count>
<displayed_interface> { TABLE_groups <group_id> <vrrp_state> <bfd_status> <operation> <time> } ]
```

### Syntax Description

show	Show running system information
vrrp	Show vrrp information
bfd-sessions	BFD sessions
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
to	(Optional) To IP address
<i>ipaddress</i>	(Optional) Sessions to IP address
<i>__readonly__</i>	(Optional)
TABLE_bfd_sess	(Optional)
<i>interface</i>	(Optional) Interface
<i>src_addr</i>	(Optional) IPv4 Source address
<i>dst_addr</i>	(Optional) IPv4 Destination address
<i>session_state</i>	(Optional) Session state
<i>ref_count</i>	(Optional) Ref count
<i>displayed_interface</i>	(Optional) Displayed interface
TABLE_groups	(Optional)
<i>group_id</i>	(Optional) Group id
<i>vrrp_state</i>	(Optional) VRRP STATE
<i>bfd_status</i>	(Optional) BFD STATE
<i>operation</i>	(Optional) Operation
<i>time</i>	(Optional) Time

### Command Mode

- /exec

## show vrrpv3

```
show vrrpv3 [ brief | detail | statistics ] [ <intf> [ <group_num> ] ] [ <opt_v4_or_v6> ] [ all ] [ __readonly__
[ <global_drops> ] [ { TABLE_istats [ <i_intf> ] [ <i_drops> ] [ <ttl> ] [ <checksum> ] [ <version> ] [
<type> ] [ <length> ] [ <badid> ] [ <other> } ] ] [ { TABLE_grp [ <intf> ] [ <id> ] [ <af> ] [ <desc> ] [ <state>
] [ <duration> ] [ <vip> ] [ { TABLE_sec [ <addr> ] [ <prefix> } ] ] [ <vmac> ] [ <adv> ] [ <owner> ] [
<preempt> ] [ <delay> ] [ <delay_rem> ] [ <priority> ] [ <cfg_priority> ] [ <m_addr> ] [ <m_priority> ] [
<m_adv> ] [ <m_expire> ] [ <down> ] [ <down_expire> ] [ <t_id> ] [ <t_dec_prio> ] [ <t_state> ] [ <adv_sent>
] [ <adv_err> ] [ <adv_rcvd> ] [ <v2adv_sent> ] [ <v2adv_err> ] [ <v2adv_rcvd> ] [ <drops> ] [ <incompat>
] [ <conflict> ] [ <bad_count> ] [ <bad_addr> ] [ <bad_config> ] [ <bad_advert> ] [ <bad_state> ] [ <bad_other>
] [ <init_master> ] [ <init_master_time> ] [ <init_backup> ] [ <init_backup_time> ] [ <back_master> ] [
<back_master_time> ] [ <master_back> ] [ <master_back_time> ] [ <mast_init> ] [ <mast_init_time> ] [
<back_init> ] [ <back_init_time> } ] ] ] + [ { TABLE_vbrief [ <intf_b> ] [ <id_b> ] [ <af_b> ] [ <priority_b>
] [ <down_b> ] [ <owner_b> ] [ <preempt_b> ] [ <state_b> ] [ <m_addr_b> ] [ <vip_b> } ] ] ]
```

### Syntax Description

show	Show running system information
vrrpv3	VRRPv3 Show commands
all	(Optional) All VRRPV3 information
brief	(Optional) Brief output
detail	(Optional) Detail output
statistics	(Optional) Statistics output
<i>opt_v4_or_v6</i>	(Optional) Enter ipv4 or ipv6
<i>intf</i>	(Optional) Interface
<i>group_num</i>	(Optional) Group Number
<i>__readonly__</i>	(Optional)
TABLE_istats	(Optional) Interface-level VRRPv3 statistics
TABLE_grp	(Optional) VRRP Groups
TABLE_sec	(Optional) Secondary Addresses
TABLE_vbrief	(Optional) VRRP Brief
<i>global_drops</i>	(Optional) Total dropped packets
<i>i_intf</i>	(Optional) Interface
<i>i_drops</i>	(Optional) Total dropped packets
<i>ttl</i>	(Optional) Invalid TTL/Hop limit
<i>checksum</i>	(Optional) Invalid checksum

<i>version</i>	(Optional) Invalid version
<i>type</i>	(Optional) Invalid message type
<i>length</i>	(Optional) Invalid length
<i>badid</i>	(Optional) Invalid group ID
<i>other</i>	(Optional) Other
<i>intf</i>	(Optional) Interface
<i>id</i>	(Optional) Group ID
<i>af</i>	(Optional) Address family
<i>desc</i>	(Optional) Description
<i>state</i>	(Optional) Group state
<i>duration</i>	(Optional) Time in current state
<i>vip</i>	(Optional) Primary virtual IP address
<i>addr</i>	(Optional) Secondary virtual IP address
<i>prefix</i>	(Optional) Secondary vIP prefix
<i>vmac</i>	(Optional) Virtual MAC address
<i>adv</i>	(Optional) Advertisement interval
<i>preempt</i>	(Optional) Preemption status
<i>owner</i>	(Optional) Owner mode
<i>delay</i>	(Optional) Preemption delay
<i>delay_rem</i>	(Optional) Preemption delay remaining
<i>priority</i>	(Optional) Priority
<i>cfg_priority</i>	(Optional) Configured priority
<i>m_addr</i>	(Optional) Group master router address
<i>m_priority</i>	(Optional) Group master priority
<i>m_adv</i>	(Optional) Master advertisement interval
<i>m_expire</i>	(Optional) Master expiration
<i>down</i>	(Optional) Master down interval
<i>down_expire</i>	(Optional) Master down expiration
<i>t_id</i>	(Optional) Tracking object ID

<i>t_dec_prio</i>	(Optional) Priority to decrement
<i>t_state</i>	(Optional) Tracking object state
<i>adv_sent</i>	(Optional) Advertisements sent
<i>adv_err</i>	(Optional) Advertisement errors
<i>adv_recvd</i>	(Optional) Advertisements received
<i>v2adv_sent</i>	(Optional) Advertisements sent (v2)
<i>v2adv_err</i>	(Optional) Advertisement errors (v2)
<i>v2adv_recvd</i>	(Optional) Advertisements received (v2)
<i>drops</i>	(Optional) Total dropped packets
<i>incompat</i>	(Optional) v2, Incompatible
<i>conflict</i>	(Optional) Address owner conflicts
<i>bad_count</i>	(Optional) Invalid address count
<i>bad_addr</i>	(Optional) Invalid IP address
<i>bad_config</i>	(Optional) Invalid IP address config
<i>bad_advert</i>	(Optional) Invalid advertisement interval
<i>bad_state</i>	(Optional) Invalid group state
<i>bad_other</i>	(Optional) Other
<i>init_master</i>	(Optional) Init to Master
<i>init_master_time</i>	(Optional) Last Occurrence
<i>init_backup</i>	(Optional) Init to Backup
<i>init_backup_time</i>	(Optional) Last Occurrence
<i>back_master</i>	(Optional) Backup to Master
<i>back_master_time</i>	(Optional) Last Occurrence
<i>master_back</i>	(Optional) Master to Backup
<i>master_back_time</i>	(Optional) Last Occurrence
<i>mast_init</i>	(Optional) Master to Init
<i>mast_init_time</i>	(Optional) Last Occurrence
<i>back_init</i>	(Optional) Backup to Init
<i>back_init_time</i>	(Optional) Last Occurrence



<i>intf_b</i>	(Optional) Interface
<i>id_b</i>	(Optional) Group ID
<i>af_b</i>	(Optional) Address family
<i>priority_b</i>	(Optional) Priority
<i>down_b</i>	(Optional) Master down interval
<i>owner_b</i>	(Optional) Owner mode
<i>preempt_b</i>	(Optional) Preemption status
<i>state_b</i>	(Optional) Group state
<i>m_addr_b</i>	(Optional) Group master router address
<i>vip_b</i>	(Optional) Primary virtual IP address

**Command Mode**

- /exec

# show vrrs client

```
show vrrs client [ <cname> ] [ __readonly__ { TABLE_client <name> <id> <all> <priority> { TABLE_tags
<tname> } } ]
```

## Syntax Description

vrrs	VRRS Show commands
show	Show running system information
client	Information about VRRS clients
<i>cname</i>	(Optional) VRRS client name
<i>__readonly__</i>	(Optional)
TABLE_client	(Optional) VRRS clients
TABLE_tags	(Optional) VRRS tags
<i>name</i>	(Optional) VRRS client name
<i>id</i>	(Optional) VRRS client id
<i>priority</i>	(Optional) Priority
<i>all</i>	(Optional) Client follows all tags
<i>tname</i>	(Optional) VRRS tag name

## Command Mode

- /exec

# show vrrs pathway

```
show vrrs pathway [ <intf> ] [ __readonly__ { TABLE_pws <name> <state> <vrrs_push_state> <vmac>
<vmac_state> <vmac_dbg> [ <pvmac> ] [ <pvmac_state> ] [ <pvmac_dbg> ] <af> [ <desc> ] <opt> <eval>
[ { TABLE_vips <addr> [ <flags> } ] } ] }
```

## Syntax Description

vrrs	VRRS Show commands
show	Show running system information
pathway	Information about VRRS pathways
<i>intf</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
TABLE_pws	(Optional) Show VRRS pathways
TABLE_vips	(Optional) Pathway vIP addresses
<i>name</i>	(Optional) Pathway name
<i>state</i>	(Optional) Pathway state
<i>vrrs_push_state</i>	(Optional) VRRS push state
<i>vmac</i>	(Optional) Virtual MAC address
<i>vmac_state</i>	(Optional) Virtual MAC state
<i>vmac_dbg</i>	(Optional) Virtual MAC debug flags
<i>pvmac</i>	(Optional) Previous Virtual MAC address
<i>pvmac_state</i>	(Optional) Previous MAC state
<i>pvmac_dbg</i>	(Optional) Previous MAC debug flags
<i>af</i>	(Optional) Pathway address-family
<i>desc</i>	(Optional) Pathway description
<i>opt</i>	(Optional) Option flags
<i>eval</i>	(Optional) Eval flags
<i>addr</i>	(Optional) Virtual IP address
<i>flags</i>	(Optional) Virtual IP address flags

## Command Mode

- /exec

## show vrrs server

```
show vrrs server [ __readonly__ { TABLE_srv <name> <af> <intf> <state> <vmac> <vip> [ { TABLE_tag
<tag> } ] } ]
```

### Syntax Description

vrrs	VRRS Show commands
show	Show running system information
server	Information about VRRS servers
__readonly__	(Optional)
TABLE_srv	(Optional) VRRS Servers
TABLE_tag	(Optional) VRRS tags associated with each server
<i>name</i>	(Optional) VRRS server name
<i>af</i>	(Optional) Address-family
<i>intf</i>	(Optional) Interface
<i>state</i>	(Optional) VRRS server state
<i>vmac</i>	(Optional) Virtual MAC address
<i>vip</i>	(Optional) Virtual IP address
<i>tag</i>	(Optional) VRRS tag

### Command Mode

- /exec

# show vrrs tag

```
show vrrs tag [ <tagname> ] [ __readonly__ { TABLE_tag <name> <server> [ { TABLE_client <id> <client>
<all> } ] } ]
```

## Syntax Description

vrrs	VRRS Show commands
show	Show running system information
tag	Information about VRRS tags
<i>tagname</i>	(Optional) VRRS tag
<i>__readonly__</i>	(Optional)
TABLE_tag	(Optional) Known VRRS tags
TABLE_client	(Optional) VRRS clients listening
<i>name</i>	(Optional) VRRS tag name
<i>server</i>	(Optional) VRRS server name
<i>id</i>	(Optional) VRRS client id
<i>client</i>	(Optional) VRRS client name
<i>all</i>	(Optional) Client follows all tags

## Command Mode

- /exec

# show vsan

```
show vsan [ <id_in> ] [ __readonly__ { TABLE_vsan <id> { [ <name> <state> <interop_mode>
<load_balancing> <operational_state> ] | <inactive_vsan_name> | <evfp_control_vsan_name> } } ]
```

## Syntax Description

show	Show running system information
vsan	Vsan commands
<i>id_in</i>	(Optional) VSAN ID range
<i>__readonly__</i>	(Optional) Read Only
TABLE_vsan	(Optional) Table of VSAN's
<i>id</i>	(Optional) VSAN ID
<i>name</i>	(Optional) VSAN name
<i>state</i>	(Optional) VSAN state
<i>interop_mode</i>	(Optional) Interoperability mode
<i>load_balancing</i>	(Optional) Load balancing
<i>operational_state</i>	(Optional) Operational state
<i>inactive_vsan_name</i>	(Optional) Isolated VSAN
<i>evfp_control_vsan_name</i>	(Optional) EVFP isolated VSAN

## Command Mode

- /exec

# show vsan membership

```
show vsan [ <id_in> ] membership [ __readonly__ { TABLE_vsan <id> [ <inactive_vsan_name> ] [
<evfp_control_vsan_name> ] [ TABLE_interface <name> ] } ]
```

## Syntax Description

show	Show running system information
vsan	Vsan commands
<i>id_in</i>	(Optional) VSAN ID range
membership	VSAN membership information
<i>__readonly__</i>	(Optional) Read Only
TABLE_vsan	(Optional) VSAN table
<i>id</i>	(Optional) VSAN ID
<i>inactive_vsan_name</i>	(Optional) Isolated VSAN
<i>evfp_control_vsan_name</i>	(Optional) EVFP isolated VSAN
TABLE_interface	(Optional) List of interface members
<i>name</i>	(Optional) Interface name

## Command Mode

- /exec

## show vsan membership interface

```
show vsan membership interface <if_in> [ __readonly__ { TABLE_interface <name> <vsan_id_memb> [
<inactive_vsan_name> | <evfp_control_vsan_name> ] <allowed_vsan_list> } ]
```

### Syntax Description

show	Show running system information
vsan	Vsan commands
membership	VSAN membership information
interface	Show interface status and information
<i>if_in</i>	Interface range
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) Interface VSAN table
<i>name</i>	(Optional) Interface Name
<i>vsan_id_memb</i>	(Optional) VSAN ID to which interface belongs
<i>inactive_vsan_name</i>	(Optional) Isolated VSAN
<i>evfp_control_vsan_name</i>	(Optional) EVFP isolated VSAN
<i>allowed_vsan_list</i>	(Optional) Allowed VSAN list

### Command Mode

- /exec



## show vsan usage

```
show vsan usage [ __readonly__ { <num_vsans_configured> <configured_range_of_vsans>
<vsans_available_to_configure> } ]
```

### Syntax Description

show	Show running system information
vsan	Vsan commands
usage	show VSAN usage in the system
<i>__readonly__</i>	(Optional) Read Only
<i>num_vsans_configured</i>	(Optional) Total VSAN's configured
<i>configured_range_of_vsans</i>	(Optional) Range of VSAN's configured
<i>vsans_available_to_configure</i>	(Optional) VSAN range available to configure

### Command Mode

- /exec

## show vtp counters

```
show vtp counters [ __readonly__ <start> <summary_rx> <subset_rx> <request_rx> <summary_tx>
<subset_tx> <request_tx> <num_config_rev_error> <num_config_digest_error> <num_v1_summary_error>
[ { TABLE_pruning_counters <if_index> <join_tx> <join_rx> <summary_adv_v1_rx> } ] ]
```

### Syntax Description

show	Show running system information
vtp	VTP information
counters	VTP statistics
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>summary_rx</i>	(Optional) Summary advertisements received
<i>subset_rx</i>	(Optional) Subset advertisements received
<i>request_rx</i>	(Optional) Request advertisements received
<i>summary_tx</i>	(Optional) Summary advertisements transmitted
<i>subset_tx</i>	(Optional) Subset advertisements transmitted
<i>request_tx</i>	(Optional) Request advertisements transmitted
<i>num_config_rev_error</i>	(Optional) Number of config revision errors
<i>num_config_digest_error</i>	(Optional) Number of config digest errors
<i>num_v1_summary_error</i>	(Optional) Number of V1 summary errors
TABLE_pruning_counters	(Optional) Pruning counters in table format
<i>if_index</i>	(Optional) Trunk
<i>join_tx</i>	(Optional) Join Transmitted
<i>join_rx</i>	(Optional) Join Received
<i>summary_adv_v1_rx</i>	(Optional) Summary advts received from non-pruning-capable device

### Command Mode

- /exec

# show vtp interface

```
show vtp interface [ <interface_range> ] [ __readonly__ [ <start> ] { TABLE_vtp_interface <if_index>
<status> } ]
```

## Syntax Description

show	Show running system information
vtp	VTP information
interface	VTP interface status and configuration
<i>interface_range</i>	(Optional) Enter interfaces
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
TABLE_vtp_interface	(Optional) VTP interface configuration in table format
<i>if_index</i>	(Optional) Trunk
<i>status</i>	(Optional) VTP interface status

## Command Mode

- /exec

# show vtp password

```
show vtp password [ domain <domain-id> ] [ __readonly__ <start> <passwd> <password-type> <secret-key> ]
```

## Syntax Description

show	Show running system information
vtp	VTP information
password	VTP password
domain	(Optional) VTP administrative domain
<i>domain-id</i>	(Optional) Domain index(Domain-id)
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>passwd</i>	(Optional) VTP Domain Password
<i>password-type</i>	(Optional) Password Type (1=plaintext, 2=hidden)
<i>secret-key</i>	(Optional) Secret Key for the password

## Command Mode

- /exec

## show vtp status

```
show vtp status [ __readonly__ <start> <version> <config_rev> <max_vlan_supported_local>
<num_current_vlans> <oper_mode> <domain_name> <pruning_mode> <oper_pruning_mode> <v2_mode>
<trap_enabled> <md5_digest> <last_modified_ip> <last_modified_time> <running-version> <updater_id>
<updater_reason> ]
```

### Syntax Description

show	Show running system information
vtp	VTP information
status	VTP domain status
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>version</i>	(Optional) VTP version
<i>config_rev</i>	(Optional) Configuration Revision
<i>max_vlan_supported_local</i>	(Optional) Maximum VLANs supported locally
<i>num_current_vlans</i>	(Optional) Number of existing VLANs
<i>oper_mode</i>	(Optional) VTP Mode
<i>domain_name</i>	(Optional) VTP Domain Name
<i>pruning_mode</i>	(Optional) Pruning Mode
<i>oper_pruning_mode</i>	(Optional) Operational Pruning Mode
<i>v2_mode</i>	(Optional) VTP v2 Mode
<i>trap_enabled</i>	(Optional) trap enabled
<i>md5_digest</i>	(Optional) MD5 Digest
<i>last_modified_ip</i>	(Optional) Configuration last modified by
<i>last_modified_time</i>	(Optional) Configuration last modified at
<i>running-version</i>	(Optional) VTP Version Running
<i>updater_id</i>	(Optional) Local Updater id
<i>updater_reason</i>	(Optional) Local Updater id reason

### Command Mode

- /exec

show vtp status



## W Show Commands

---

- [show wred-queue qos-group-map](#), on page 2942
- [show wrr-queue qos-group-map](#), on page 2943
- [show wrr unicast-bandwidth](#), on page 2944
- [show wwn status](#), on page 2945
- [show wwn switch](#), on page 2946
- [show wwn test](#), on page 2947
- [show wwn vsan-wwn](#), on page 2949

# show wred-queue qos-group-map

```
show wred-queue qos-group-map [ __readonly__ TABLE_wred_queue_qos_group_map
<wred-queue><qos-group-map> ]
```

## Syntax Description

show	Show running system information
wred-queue	Show WRED qos-group information
qos-group-map	Display mapping of the qos-group information
__readonly__	(Optional)
TABLE_wred_queue_qos_group_map	(Optional) XML show wred-queue qos-group-map

## Command Mode

- /exec



## show wrr-queue qos-group-map

```
show wrr-queue qos-group-map [ __readonly__ <mcast_queue_id> [ TABLE_wrr_queue <wrr_queue> [
TABLE_qos_group <qos_group> ] ] ]
```

### Syntax Description

show	Show running system information
wrr-queue	Display mapping of traffic priority (CoS) values to L3 Multicast
qos-group-map	Show wrr-queue qos-group-map
<i>__readonly__</i>	(Optional)
<i>mcast_queue_id</i>	(Optional) MCAST Queue ID
<i>TABLE_wrr_queue</i>	(Optional) Table wrr queue
<i>wrr_queue</i>	(Optional) Traffic priority values
<i>TABLE_qos_group</i>	(Optional) Table qos group
<i>qos_group</i>	(Optional) QoS-Group-Map

### Command Mode

- /exec

## show wrr unicast-bandwidth

show wrr unicast-bandwidth [ \_\_readonly\_\_ TABLE\_wrr\_unicast\_bandwidth <unicast-bandwidth> ]

### Syntax Description

show	Show running system information
wrr	unicast bandwidth configuration
unicast-bandwidth	rate in percentage of data rate
__readonly__	(Optional)
TABLE_wrr_unicast_bandwidth	(Optional) XML show wrr unicast-bandwidth
<i>unicast-bandwidth</i>	(Optional) unicast bandwidth value

### Command Mode

- /exec

## show wwn status

```
show wwn status [ { backplane-prom | block-id <i0> | non-volatile-pss | volatile-pss } ] [ __readonly__ [
TABLE_status <type> <configured> <available> <avbl_percent> <resd> <alarm> ] [ <wwn_start> <wwn_end>
<num_of_wwn> <allocated_wwn> <available_wwn> <alloc_status> ] ]
```

### Syntax Description

show	Show running system information
wwn	show wwn information
status	Show overall WWN Usage and Alarm Status
backplane-prom	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
block-id	(Optional) Enter a block id.
<i>i0</i>	(Optional) Enter a block id.
non-volatile-pss	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
volatile-pss	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional) Read Only
TABLE_status	(Optional) show wwn status table
<i>type</i>	(Optional) WWN Type
<i>configured</i>	(Optional) Number of Configured WWNs
<i>available</i>	(Optional) Number of Available WWNs
<i>avbl_percent</i>	(Optional) Available % of WWNs
<i>resd</i>	(Optional) Reserved WWNs
<i>alarm</i>	(Optional) Alarm State
<i>wwn_start</i>	(Optional) Start value of WWN-range
<i>wwn_end</i>	(Optional) End value of WWN-range
<i>num_of_wwn</i>	(Optional) Total Number of WWNs
<i>allocated_wwn</i>	(Optional) Number of Allocated WWNs
<i>available_wwn</i>	(Optional) Number of Available WWNs
<i>alloc_status</i>	(Optional) Block Allocation Status

### Command Mode

- /exec

# show wwn switch

```
show wwn switch [ __readonly__ { <sw_wwn> } ]
```

## Syntax Description

show	Show running system information
wwn	show wwn information
switch	Show switch WWN
__readonly__	(Optional) Read Only
<i>sw_wwn</i>	(Optional) The Switch WWN

## Command Mode

- /exec

## show wwn test

```
show wwn test { get_swwn_from_pwwn <wwn0> | get_pwwn_from_swwn <wwn1> if_index <i0> |
get_ifindex_from_fwfn <wwn2> | get_ifindex_from_pwwn <wwn3> | validate_pwwn_given_swwn <wwn4>
pwwn <wwn5> | get_all_pwwn_for_slot <i1> | get_kc_type_given_swwn <wwn6> pwwn <wwn7> |
get_ifindex_from_pwwn_swwn <wwn8> pwwn <wwn9> }
```

### Syntax Description

show	show running system information
wwn	show wwn information
test	show wwn information for testing
get_swwn_from_pwwn	show switch wwn from port wwn
<i>wwn0</i>	port wwn
get_pwwn_from_swwn	show port wwn from switch wwn
<i>wwn1</i>	switch wwn
if_index	interface index
<i>i0</i>	Interface index
get_ifindex_from_fwfn	show ifindex from fabric wwn
<i>wwn2</i>	fabric wwn
get_ifindex_from_pwwn	show ifindex from port wwn
<i>wwn3</i>	port wwn
validate_pwwn_given_swwn	validate port wwn for given swwn
<i>wwn4</i>	switch wwn
pwwn	port wwn
<i>wwn5</i>	port wwn
get_all_pwwn_for_slot	show all port wwn for a given slot
<i>i1</i>	Slot number
get_kc_type_given_swwn	show KC type
<i>wwn6</i>	switch wwn
pwwn	port wwn
<i>wwn7</i>	port wwn

get_ifindex_from_pwwn_swwn	show ifindex for given pwwn and swwn
wwn8	switch wwn
pwwn	port wwn
wwn9	port wwn

**Command Mode**

- /exec

## show wwn vsan-wwn

```
show wwn vsan-wwn [ __readonly__ [ TABLE_wwnvsan <vsan_id> <wwn_conf> ] ]
```

### Syntax Description

show	Show running system information
wwn	show wwn information
vsan-wwn	Show all user configured vsan wwn
__readonly__	(Optional) Read Only
TABLE_wwnvsan	(Optional) vsan-wwn table
<i>vsan_id</i>	(Optional) VSAN ID
<i>wwn_conf</i>	(Optional) wwn configured by user

### Command Mode

- /exec







## X Show Commands

---

- [show xml server logging configuration, on page 2952](#)
- [show xml server status, on page 2953](#)

# show xml server logging configuration

show xml server logging configuration

## Syntax Description

show	Show running system information
xml	Show xmlagent logging configuration
server	xml agent server
logging	Show logging configuration and contents of logfile
configuration	Show facility logging configuration

## Command Mode

- /exec

## show xml server status

```
show xml server status [ __readonly__ { operational_status <o_status> } { maximum_sessions_configured
<max_session> } [ { TABLE_sessions <session_id> <user_name> <start_time> <sap_id> <timeout>
<time_remaining_to_timeout> <ip_addr> } ] ]
```

### Syntax Description

show	to display xml agent information
xml	xml agent
server	xml agent server
status	display xml agent information
<i>__readonly__</i>	(Optional)
<i>operational_status</i>	(Optional) run-time info about xml
<i>o_status</i>	(Optional) operational status of the xml
<i>maximum_sessions_configured</i>	(Optional) the max session configured
<i>max_session</i>	(Optional) max sessions number
<i>TABLE_sessions</i>	(Optional) all xml sessions
<i>session_id</i>	(Optional) one xml session id
<i>user_name</i>	(Optional) the xml session user name
<i>start_time</i>	(Optional) the xml session start time
<i>sap_id</i>	(Optional) the mts sap id
<i>timeout</i>	(Optional) inactivity timeout value
<i>time_remaining_to_timeout</i>	(Optional) time remaining to timeout
<i>ip_addr</i>	(Optional) ip address of the session

### Command Mode

- /exec

show xml server status



## PART II

# XML Support

- [Commands with XML/JSON Support, on page 2957](#)





## Commands with XML/JSON Support

---

- [XML Support for Show Commands, on page 2958](#)

# XML Support for Show Commands

Table 1:

Show Commands	XML Support
show aaa accounting	yes
show aaa authentication	yes
show aaa authentication login	yes
show aaa authentication login ascii-authentication	yes
show aaa authentication login error-enable	yes
show aaa authentication login invalid-username-log	yes
show aaa authorization	yes
show aaa bypass-user	yes
show aaa client radius statistics	yes
show aaa groups	yes
show aaa local user blocked	yes
show aaa server radius statistics	yes
show aaa user default-role	yes
show access-list	yes
show access-list database	yes
show access-lists	yes
show accounting log	yes
show accounting log all	yes
show accounting log last-index	yes
show accounting log nvram	yes
show accounting log nvram last-index	yes
show accounting log nvram start-seqnum	yes
show accounting log start-seqnum	yes
show acl status	yes
show amt process	yes



Show Commands	XML Support
show amt vrf all	yes
show archive log config	yes
show arp access-lists	yes
show background	yes
show banner exec	yes
show banner motd	yes
show bash-shell	yes
show bfd clients	yes
show bfd neighbors	yes
show bgp	yes
show bgp bmp server	yes
show bgp community	yes
show bgp convergence	yes
show bgp dampening dampened	yes
show bgp dampening flap-statistics	yes
show bgp dampening parameters	yes
show bgp evi	yes
show bgp extcommunity	yes
show bgp l3vpn	yes
show bgp neighbors	yes
show bgp neighbors commands	yes
show bgp neighbors flap-statistics	yes
show bgp neighbors paths	yes
show bgp paths	yes
show bgp peer	yes
show bgp peer-template	yes
show bgp prefix-list	yes
show bgp private attr	no

Show Commands	XML Support
show bgp private debug history	no
show bgp process	yes
show bgp received-paths	yes
show bgp regexp	yes
show bgp self-originated	yes
show bgp sessions	yes
show bgp statistics	yes
show bgp summary	yes
show boot	yes
show boot auto-copy	yes
show boot auto-copy list	yes
show boot current	yes
show boot mode	yes
show boot order	yes
show boot timings	no
show boot variables	yes
show callhome	yes
show callhome destination-profile	yes
show callhome destination-profile profile	yes
show callhome destination-profile profile CiscoTAC-1	yes
show callhome destination-profile profile full-txt-destination	yes
show callhome destination-profile profile short-txt-destination	yes
show callhome transport	yes
show callhome transport-email	yes
show callhome user-def-cmds	yes
show catena	yes
show catena analytics	yes
show cdp	yes

Show Commands	XML Support
show cdp all	yes
show cdp global	yes
show cdp neighbors	yes
show cdp neighbors detail	yes
show cdp traffic interface2	yes
show cdp traffic interface2 all	yes
show cfs application	yes
show cfs lock	yes
show cfs merge status	yes
show cfs peers	yes
show cfs regions	yes
show cfs status	yes
show checkpoint	yes
show checkpoint summary	yes
show class-map	yes
show class-map type control-plane	yes
show class-map type network-qos	yes
show cli alias	yes
show cli dynamic integers	yes
show cli dynamic strings	yes
show cli dynamic-cmd	no
show cli history	no
show cli interface table	no
show cli list	no
show cli syntax	no
show cli variables	yes
show clock	yes
show config-profile	yes

Show Commands	XML Support
show config-profile applied	yes
show config-replace log exec	yes
show config-replace status	yes
show config-template	yes
show configuration session	yes
show configuration session global-info	yes
show configuration session status	yes
show configuration session summary	yes
show configuration session vsh	yes
show consistency-checker copp	no
show consistency-checker dme interfaces	no
show consistency-checker egress-xlate private-vlan	no
show consistency-checker forwarding ipv6	yes
show consistency-checker forwarding show forwarding inconsistency	yes
show consistency-checker forwarding single-route ipv4 vrf	no
show consistency-checker kim	no
show consistency-checker kim interface	no
show consistency-checker l2 multicast group source vlan	no
show consistency-checker l2-tahoe module	no
show consistency-checker l2-tahoe switchport interface	no
show consistency-checker l3 multicast source vrf	no
show consistency-checker l3-interface module	no
show consistency-checker link-state fabric-ieth	no
show consistency-checker link-state module	no
show consistency-checker membership port-channels	no
show consistency-checker membership vlan	no
show consistency-checker port-state	no
show consistency-checker port-state fabric-ieth	no

<b>Show Commands</b>	<b>XML Support</b>
show consistency-checker racl module	no
show consistency-checker racl port-channels	no
show consistency-checker racl svi interface	no
show consistency-checker stp-state vlan	no
show consistency-checker vxlan config-check	no
show consistency-checker vxlan pv	no
show consistency-checker vxlan vlan	no
show controller accounting log	no
show copp status	yes
show copyright	yes
show cores	yes
show crypto ca certificates	yes
show crypto ca certstore	yes
show crypto ca crl	yes
show crypto ca remote-certstore	yes
show crypto ca trustpoints	yes
show crypto ca trustpool	yes
show crypto ca trustpool last download status	yes
show crypto ca trustpool policy	yes
show crypto certificatemap	yes
show crypto key mypubkey rsa	yes
show crypto ssh-auth-map	yes
show cts	yes
show current	no
show diagnostic bootup level	yes
show diagnostic description module test all	yes
show diagnostic events	yes
show diagnostic result module	yes

Show Commands	XML Support
show diagnostic result module all	yes
show diff rollback-patch	yes
show dot1q-tunnel	yes
show dot1q-tunnel interface	yes
show dot1x	yes
show dot1x all	yes
show dot1x all details	yes
show dot1x all statistics	yes
show dot1x all summary	yes
show dot1x interface	yes
show dot1x interface client statistics	yes
show dot1x interface client statistics address	yes
show ecp	yes
show elam report	no
show email	yes
show encryption service stat	yes
show environment	yes
show errdisable detect	yes
show errdisable flap	no
show evb	yes
show evb hosts	yes
show evb vsi	yes
show event manager environment	yes
show event manager event-types	yes
show event manager events action-log	yes
show event manager history events	yes
show event manager policy-state	yes
show event manager script system	yes

Show Commands	XML Support
show event manager system-policy	yes
show fabric database dci	yes
show fabric database host	yes
show fabric database host statistics	yes
show fabric database host summary	yes
show fabric database profile-map	yes
show fabric database static-host	yes
show fabric database statistics	yes
show fabric forwarding host-db	yes
show fabric forwarding ip local	yes
show fabric forwarding ipv6 local	yes
show fabric multicast globals	yes
show fabric multicast ipv4 l2 vni	yes
show fabric multicast statistics	no
show fabric multicast vrf	yes
show fc2 bind	yes
show fc2 classf	yes
show fc2 exchange	yes
show fc2 exchresp	yes
show fc2 flogi	yes
show fc2 nport	yes
show fc2 plogi	yes
show fc2 plogi_pwwn	yes
show fc2 port brief	yes
show fc2 port drops	yes
show fc2 port state	yes
show fc2 socket	yes
show fc2 sockexch	yes

Show Commands	XML Support
show fc2 socknotify	yes
show fc2 socknport	yes
show fc2 vsan	yes
show fcdroplateny	yes
show fcoe	yes
show fcoe database	yes
show fcoe-npv issu-impact	yes
show fctimer	yes
show fctimer D_S_TOV	yes
show fctimer E_D_TOV	yes
show fctimer F_S_TOV	yes
show fctimer last action status	yes
show fctimer pending	yes
show fctimer pending-diff	yes
show fctimer R_A_TOV	yes
show fctimer session status	yes
show fctimer status	yes
show fctimer vsan	yes
show feature	yes
show feature-set	yes
show feature-set services	yes
show fhrp	yes
show fhrp verbose	yes
show file	yes
show fips status	yes
show flow cache	yes
show flow exporter	yes
show flow filter	yes



Show Commands	XML Support
show flow interface	yes
show flow monitor	yes
show flow profile	yes
show flow record	yes
show flow rtp	yes
show flow rtp timeout	yes
show flow system	yes
show flow timeout	yes
show flow tracer	yes
show forwarding	no
show forwarding adjacency	yes
show forwarding distribution clients	yes
show forwarding distribution fib-state	yes
show forwarding distribution ip igmp snooping	yes
show forwarding distribution ipv6 multicast route	yes
show forwarding distribution l2 multicast	yes
show forwarding distribution lisp counters	yes
show forwarding distribution lisp vrf enabled	yes
show forwarding distribution multicast	yes
show forwarding distribution multicast client	yes
show forwarding distribution multicast client-ack-db	yes
show forwarding distribution multicast download	no
show forwarding distribution multicast mfib	yes
show forwarding distribution multicast outgoing-interface-list L2_PRIME	yes
show forwarding distribution multicast resp-ack-timer-msgs	no
show forwarding distribution multicast route	yes
show forwarding distribution multicast vxlan dsg-db	no
show forwarding distribution nve overlay-vlan	yes

Show Commands	XML Support
show forwarding distribution peer-id	yes
show forwarding distribution trace	no
show forwarding ecmp	yes
show forwarding ecmp recursive	yes
show forwarding interfaces	yes
show forwarding ipv6 adjacency	yes
show forwarding ipv6 inconsistency	yes
show forwarding ipv6 multicast route	yes
show forwarding kvfib cache on	no
show forwarding l2 multicast	yes
show forwarding l2vpn label vpls	yes
show forwarding l2vpn label xconnect	yes
show forwarding l2vpn vlan	yes
show forwarding mpls	yes
show forwarding mpls drop-stats	yes
show forwarding mpls ecmp	yes
show forwarding mpls eompls	yes
show forwarding mpls eompls ir	yes
show forwarding mpls srte module	yes
show forwarding mpls summary	yes
show forwarding multicast outgoing-interface-list	yes
show forwarding multicast route	yes
show forwarding multicast-sr loopback interface	yes
show forwarding nve l2 ingress-replication-peers	yes
show forwarding nve l3 adjacency tunnel	yes
show forwarding nve l3 adjacency v6-tunnel	yes
show forwarding nve l3 ecmp	yes
show forwarding nve l3 peers	yes

Show Commands	XML Support
show forwarding nve underlay-interfaces	yes
show forwarding otv	yes
show forwarding security group-tag	yes
show forwarding security mac	yes
show forwarding trace	yes
show forwarding trace profile	no
show forwarding trace profile funcstats	yes
show fte event	yes
show fte exporter	yes
show fte monitor	yes
show fte record	yes
show guestshell	yes
show hardware	yes
show hardware access-list lou resource threshold	yes
show hardware access-list resource pooling	yes
show hardware capacity	no
show hardware capacity eobc	yes
show hardware capacity forwarding	no
show hardware capacity interface	yes
show hardware capacity module	yes
show hardware capacity power	yes
show hardware fabricpath mac-learning module	yes
show hardware feature-capability	yes
show hardware flow aging	no
show hardware flow entry address type	no
show hardware flow etrap	yes
show hardware flow ip	no
show hardware flow ipv6	no

Show Commands	XML Support
show hardware flow l2	no
show hardware flow mpls	no
show hardware flow sampler	no
show hardware flow utilization	no
show hardware forwarding interface statistics mode	yes
show hardware forwarding memory health detail	yes
show hardware forwarding memory health summary	yes
show hardware ip verify	yes
show hardware profile packet-drop	yes
show hardware profile status	yes
show hardware profile team region	yes
show hardware qos eoq stats-class	yes
show hardware qos include ipg	yes
show hardware qos ing-pg-hdrm-reserve	yes
show hardware qos ing-pg-no-min	yes
show hardware qos ing-pg-share	yes
show hardware qos min-buffer	yes
show hardware qos ns-buffer-profile	yes
show hardware rate-limiter	yes
show hardware rate-limiter span-egress	yes
show hostname	yes
show hosts	yes
show hsrp	yes
show hsrp anycast	no
show hsrp anycast interface vlan	no
show hsrp anycast remote-db	no
show hsrp anycast summary	no
show hsrp bfd-sessions	yes

Show Commands	XML Support
show hsrp delay	yes
show hsrp mgo	yes
show hsrp summary	yes
show icam entries acl module inst	yes
show icam health	yes
show icam itd	yes
show icam prediction entries acl module inst	yes
show icam prediction scale	yes
show icam scale	yes
show ieth-header-decode	no
show inband-telemetry exporter	yes
show inband-telemetry flow-profile	yes
show inband-telemetry monitor	yes
show inband-telemetry queue-profile	yes
show inband-telemetry record	yes
show inband-telemetry sessions	yes
show inband-telemetry watchlist	yes
show incompatibility system	yes
show incompatibility-all system	yes
show install	yes
show install all failed-standby	yes
show install all failure-reason	yes
show install all impact	no
show install all status	no
show install all time-stats	no
show install log	yes
show install mode	yes
show install packages	yes

Show Commands	XML Support
show install patches	yes
show interface	yes
show interface aggregate-counters	yes
show interface bbcredit	yes
show interface brief	yes
show interface cable-diagnostics-tdr	yes
show interface capabilities	yes
show interface counters	yes
show interface counters brief	yes
show interface counters detailed	yes
show interface counters detailed all	yes
show interface counters detailed all	no
show interface counters detailed all	yes
show interface counters detailed cached	yes
show interface counters details	yes
show interface counters errors	yes
show interface counters errors	no
show interface counters snmp	yes
show interface counters storm-control	yes
show interface counters table	yes
show interface counters table verbose	yes
show interface counters trunk	yes
show interface debounce	yes
show interface description	yes
show interface detail-counters	yes
show interface fcoe	yes
show interface fec	yes
show interface flowcontrol	yes

Show Commands	XML Support
show interface hardware-mappings	no
show interface mac-address	yes
show interface priority-flow-control	yes
show interface private-vlan mapping	yes
show interface pruning	yes
show interface snmp-ifindex	yes
show interface status	yes
show interface status err-disabled	yes
show interface status err-vlans	yes
show interface switchport	yes
show interface switchport backup	yes
show interface transceiver	yes
show interface trunk	yes
show interface trunk vsan	yes
show interface untagged-cos	yes
show interface vlan mapping	yes
show inventory	yes
show ip adjacency	yes
show ip amt relay	yes
show ip amt route	yes
show ip amt tunnel	yes
show ip arp	yes
show ip arp anycast topo-info	yes
show ip arp client	yes
show ip arp controller-statistics	yes
show ip arp esi	yes
show ip arp inspection	yes
show ip arp inspection interfaces	yes

Show Commands	XML Support
show ip arp inspection log	yes
show ip arp inspection statistics	yes
show ip arp inspection vlan	yes
show ip arp l2 statistics interface	yes
show ip arp multihoming-statistics	yes
show ip arp off-list	yes
show ip arp open-flow error-statistics	yes
show ip arp statistics	yes
show ip arp suppression topo-info	yes
show ip arp suppression-cache	yes
show ip arp tunnel-statistics	yes
show ip arp vpc-statistics	yes
show ip as-path-access-list	yes
show ip client	yes
show ip community-list	yes
show ip dhcp global statistics	yes
show ip dhcp option82 suboption info interface	yes
show ip dhcp relay	yes
show ip dhcp relay address	yes
show ip dhcp relay information trusted-sources	yes
show ip dhcp relay statistics	yes
show ip dhcp snooping	yes
show ip dhcp snooping binding	no
show ip dhcp snooping statistics	no
show ip dhcp status	yes
show ip dns source-interface	yes
show ip dns source-interface vrf all	yes
show ip eigrp	yes



Show Commands	XML Support
show ip eigrp accounting	yes
show ip eigrp interfaces	yes
show ip eigrp traffic	yes
show ip extcommunity-list	yes
show ip fib distribution	no
show ip fib distribution clients	yes
show ip fib distribution mroute	yes
show ip fib distribution multicast	yes
show ip fib distribution state	yes
show ip fib mroute	yes
show ip fib route	yes
show ip ftp source-interface	yes
show ip ftp source-interface vrf all	yes
show ip http source-interface	yes
show ip http source-interface vrf all	yes
show ip igmp groups	yes
show ip igmp interface	yes
show ip igmp local-groups	yes
show ip igmp policy statistics reports	yes
show ip igmp snooping	yes
show ip igmp snooping explicit-tracking	yes
show ip igmp snooping filter details	yes
show ip igmp snooping groups	yes
show ip igmp snooping lookup-mode	yes
show ip igmp snooping mac-oif	yes
show ip igmp snooping mrouter	yes
show ip igmp snooping pw vlan brief	yes
show ip igmp snooping querier	yes

Show Commands	XML Support
show ip igmp snooping report statistics	yes
show ip igmp snooping statistics	yes
show ip igmp vrf all	yes
show ip interface	yes
show ip lisp	no
show ip lisp data-cache	no
show ip lisp locator-hash	no
show ip lisp map-cache	no
show ip lisp statistics	no
show ip lisp translate-cache	no
show ip load-sharing	yes
show ip local policy	yes
show ip logging	yes
show ip mbgp	no
show ip mbgp community	no
show ip mbgp dampening	no
show ip mbgp extcommunity	no
show ip mbgp flap-statistics	no
show ip mbgp neighbors	no
show ip mbgp nexthop	no
show ip mbgp nexthop-database	no
show ip mbgp prefix-list	no
show ip mbgp received-paths	no
show ip mroute	yes
show ip msdp count	yes
show ip msdp mesh-group	yes
show ip msdp peer	yes
show ip msdp policy statistics sa-policy in	yes

Show Commands	XML Support
show ip msdp rpf	yes
show ip msdp sa	yes
show ip msdp sources	yes
show ip msdp statistics	yes
show ip msdp summary	yes
show ip nat max	yes
show ip nat statistics	yes
show ip nat timeout	yes
show ip nat translations	yes
show ip nat-alias	yes
show ip ospf	yes
show ip ospf border-routers	yes
show ip ospf database	yes
show ip ospf database database-summary	yes
show ip ospf database detail	yes
show ip ospf interface	yes
show ip ospf interface brief	yes
show ip ospf lsa-content-changed-list	yes
show ip ospf neighbors	yes
show ip ospf neighbors detail	yes
show ip ospf neighbors summary	yes
show ip ospf request-list	yes
show ip ospf retransmission-list	yes
show ip ospf route	yes
show ip ospf route summary	yes
show ip ospf segment-routing adj-sid-database	yes
show ip ospf segment-routing global-block	yes
show ip ospf segment-routing sid-database	yes

Show Commands	XML Support
show ip ospf sham-links	yes
show ip ospf sham-links brief	yes
show ip ospf statistics	yes
show ip ospf summary-address	yes
show ip ospf traffic	yes
show ip ospf virtual-links	yes
show ip ospf virtual-links brief	yes
show ip pim config-sanity	yes
show ip pim df	yes
show ip pim fabric info	yes
show ip pim fabric legacy-vlans	yes
show ip pim group-range	yes
show ip pim host-proxy	yes
show ip pim interface	yes
show ip pim mdt	yes
show ip pim mdt bgp	yes
show ip pim mdt history interval	yes
show ip pim mdt receive	yes
show ip pim mdt send	yes
show ip pim neighbor	yes
show ip pim oif-list	yes
show ip pim policy statistics	yes
show ip pim policy statistics jp	yes
show ip pim route	yes
show ip pim rp	yes
show ip pim rp-hash	yes
show ip pim statistics	yes
show ip pim vrf	yes

Show Commands	XML Support
show ip ping source-interface	yes
show ip ping source-interface vrf all	yes
show ip policy	yes
show ip prefix-list	yes
show ip process	yes
show ip rip	yes
show ip rip interface	yes
show ip rip neighbor	yes
show ip rip policy statistics redistribute	yes
show ip rip route	yes
show ip rip statistics	yes
show ip route	yes
show ip sla application	yes
show ip sla configuration	yes
show ip sla enhanced-history collection-statistics	yes
show ip sla enhanced-history distribution-statistics	yes
show ip sla group schedule	yes
show ip sla history	yes
show ip sla reaction-configuration	yes
show ip sla reaction-trigger	yes
show ip sla responder	yes
show ip sla statistics	yes
show ip sla twamp connection detail	yes
show ip sla twamp connection requests	yes
show ip sla twamp session	yes
show ip sla twamp standards	yes
show ip ssh source-interface	yes
show ip ssh source-interface vrf all	yes

Show Commands	XML Support
show ip static-route	yes
show ip tcp mss	yes
show ip telnet source-interface	yes
show ip telnet source-interface vrf all	yes
show ip tftp source-interface	yes
show ip tftp source-interface vrf all	yes
show ip traceroute source-interface	yes
show ip traceroute source-interface vrf all	yes
show ip traffic	yes
show ip udp relay	yes
show ip udp relay interface	yes
show ip udp relay object-group	yes
show ip verify source	yes
show ipv6 adjacency	yes
show ipv6 adjacency aggregate-prefix	yes
show ipv6 adjacency subnet-prefix	yes
show ipv6 amt tunnel	yes
show ipv6 bgp	no
show ipv6 bgp community	no
show ipv6 bgp dampening	no
show ipv6 bgp extcommunity	no
show ipv6 bgp flap-statistics	no
show ipv6 bgp neighbors	no
show ipv6 bgp nexthop	no
show ipv6 bgp nexthop-database	no
show ipv6 bgp received-paths	no
show ipv6 bgp regexp	no
show ipv6 bgp summary	no

Show Commands	XML Support
show ipv6 client	yes
show ipv6 dhcp guard policy	yes
show ipv6 dhcp relay	yes
show ipv6 dhcp relay statistics	yes
show ipv6 fragments	yes
show ipv6 icmp	yes
show ipv6 icmp global traffic	yes
show ipv6 icmp interface	yes
show ipv6 icmp l2 statistics	yes
show ipv6 icmp nd local-proxy stats	yes
show ipv6 icmp off-list	yes
show ipv6 icmp vaddr	yes
show ipv6 icmp vpc-statistics	yes
show ipv6 interface	yes
show ipv6 lisp data-cache	no
show ipv6 local policy	yes
show ipv6 mld groups	yes
show ipv6 mld local-groups	yes
show ipv6 mroute	yes
show ipv6 mtu	yes
show ipv6 nd ra dns search-list	yes
show ipv6 nd ra dns server	yes
show ipv6 nd rguard policy	yes
show ipv6 neighbor binding	no
show ipv6 neighbor binding mac	no
show ipv6 neighbor static	yes
show ipv6 pim df	yes
show ipv6 pim fabric info	yes

Show Commands	XML Support
show ipv6 pim fabric legacy-vlans	yes
show ipv6 pim group-range	yes
show ipv6 pim interface	yes
show ipv6 pim neighbor	yes
show ipv6 pim oif-list	yes
show ipv6 pim policy statistics jp	yes
show ipv6 pim route	yes
show ipv6 pim rp	yes
show ipv6 pim rp-hash	yes
show ipv6 pim statistics	yes
show ipv6 pim vrf	yes
show ipv6 policy	yes
show ipv6 prefix-list	yes
show ipv6 process	yes
show ipv6 rguard statistics	yes
show ipv6 rip policy statistics redistribute	yes
show ipv6 route	yes
show ipv6 routers	yes
show ipv6 snooping capture-policy	yes
show ipv6 snooping counters vlan	yes
show ipv6 snooping events	yes
show ipv6 snooping features	yes
show ipv6 snooping messages	yes
show ipv6 snooping policies	yes
show ipv6 snooping policy	yes
show ipv6 snooping pss database	yes
show ipv6 static-route	yes
show ipv6 traffic	yes



Show Commands	XML Support
show isis	yes
show isis adjacency	yes
show isis csnp	yes
show isis database	yes
show isis distribute-ls	yes
show isis dynamic-flooding	yes
show isis interface	yes
show isis ipv6 redistribute route	yes
show isis ipv6 route	yes
show isis ipv6 summary-address	yes
show isis lslib	no
show isis mesh-group	yes
show isis redistribute route	yes
show isis route	yes
show isis rrm	yes
show isis segment-routing mapcache	yes
show isis segment-routing remote-srgb	yes
show isis segment-routing sids	yes
show isis spf-log	yes
show isis srm	yes
show isis ssn	yes
show isis statistics	yes
show isis summary-address	yes
show isis topology	yes
show isis traffic	yes
show itd	yes
show itd session device-group	yes
show itd statistics	yes

Show Commands	XML Support
show itd vrf	yes
show key chain	yes
show key chain mode decrypt	yes
show keystore	yes
show kim inconsistency	no
show kubernetes containers	no
show l2 mroute	yes
show l2 multicast ftag	yes
show l2 multicast trees	yes
show l2 route	yes
show l2fwder l2rib info	no
show l2fwder statistics	no
show l2rib clients	yes
show l2rib producers	yes
show l2rib registrations	yes
show l2route cmcast topology	yes
show l2route evpn ead all	yes
show l2route evpn ethernet-segment esi	yes
show l2route evpn fl all	yes
show l2route evpn fl evi	yes
show l2route evpn imet all	yes
show l2route evpn imet evi	yes
show l2route evpn mac all	yes
show l2route evpn mac evi	yes
show l2route evpn mac-ip all	yes
show l2route evpn mac-ip evi	yes
show l2route evpn path-list all	yes
show l2route evpn startup-route all	yes

Show Commands	XML Support
show l2route evpn startup-route evi	yes
show l2route fl topology	yes
show l2route peerid	yes
show l2route summary	yes
show l2route topology	yes
show lacp counters	yes
show lacp interface	yes
show lacp issu-impact	yes
show lacp neighbor	yes
show lacp port-channel	yes
show lacp system-identifier	yes
show lcmd stats interface	no
show ldap-search-map	yes
show ldap-server	yes
show ldap-server groups	yes
show ldap-server statistics	yes
show license	yes
show license brief	yes
show license default	yes
show license feature package mapping	yes
show license file	yes
show license host-id	yes
show license tech support	no
show license usage	yes
show line	yes
show line console	yes
show line console connected	yes
show line console user-input-string	yes

Show Commands	XML Support
show lldp all	yes
show lldp dcbox interface	yes
show lldp entry	yes
show lldp interface	yes
show lldp neighbors	yes
show lldp neighbors detail	yes
show lldp neighbors system-detail	yes
show lldp portid-subtype	yes
show lldp timers	yes
show lldp tlv-select	yes
show lldp traffic	yes
show lldp traffic interface	yes
show lldp traffic interface all	yes
show locator-led status	yes
show logging	no
show logging console	no
show logging dropcount	no
show logging info	yes
show logging ip access-list cache	yes
show logging ip access-list status	yes
show logging last	no
show logging level	no
show logging level	yes
show logging level aaa	no
show logging level acllog	no
show logging level aclmgr	no
show logging level adbm	no
show logging level adjmgr	no

<b>Show Commands</b>	<b>XML Support</b>
show logging level amt	no
show logging level arp	no
show logging level ascii-cfg	no
show logging level assoc_mgr	no
show logging level backup	no
show logging level bfd	no
show logging level bgp	no
show logging level bloggerd	no
show logging level bootvar	no
show logging level callhome	no
show logging level capability	no
show logging level catena	no
show logging level cdp	no
show logging level cert_enroll	no
show logging level cfs	no
show logging level clis	no
show logging level clk_mgr	no
show logging level confcheck	no
show logging level copp	no
show logging level core	no
show logging level cts	no
show logging level dhcp_snoop	no
show logging level diagnostic diagclient	no
show logging level diagnostic diagmgr	no
show logging level dot1x	no
show logging level ecp	no
show logging level eigrp	no
show logging level eltm	no

Show Commands	XML Support
show logging level epp	no
show logging level ethdstats	no
show logging level ethpm	no
show logging level evb	no
show logging level evmc	no
show logging level evmed	no
show logging level evms	no
show logging level fabric forwarding	no
show logging level fabricpath isis	no
show logging level fabricpath switch-id	no
show logging level fcoe_mgr	no
show logging level feature-mgr	no
show logging level fs-daemon	no
show logging level gpixm	no
show logging level hardware-telemetry	no
show logging level hsrp	no
show logging level icam	no
show logging level im	no
show logging level imp	no
show logging level interface-vlan	no
show logging level ip igmp	no
show logging level ip msdp	no
show logging level ip sla responder	no
show logging level ip sla sender	no
show logging level ip sla twamp-server	no
show logging level ipconf	no
show logging level ipfib	no
show logging level ipqos	no

Show Commands	XML Support
show logging level ipv6 icmp	no
show logging level iscm	no
show logging level isis	no
show logging level l2fm	no
show logging level l3vm	no
show logging level lacp	no
show logging level ldap	no
show logging level lim	no
show logging level lisp	no
show logging level lldp	no
show logging level m2rib	no
show logging level mfdm	no
show logging level mfw	no
show logging level mmode	no
show logging level module	no
show logging level monitor	no
show logging level mpls manager	no
show logging level mpls switching	no
show logging level mpls traffic-eng	no
show logging level mvsh	no
show logging level nat	no
show logging level nbm	no
show logging level netstack	no
show logging level nfm	no
show logging level ngmvpn	no
show logging level ngoam	no
show logging level npv	no
show logging level ntp	no

Show Commands	XML Support
show logging level nve	no
show logging level nxsdk	no
show logging level openflow	no
show logging level ospf	no
show logging level ospfv3	no
show logging level otv	no
show logging level pfstat	no
show logging level pim	no
show logging level pixm	no
show logging level pktmgr	no
show logging level platform	no
show logging level plbm	no
show logging level plcmgr	no
show logging level pltfm_config	no
show logging level plugin	no
show logging level poap	no
show logging level poed	no
show logging level port	no
show logging level port-channel	no
show logging level port-profile	no
show logging level port-resources	no
show logging level port-security	no
show logging level private-vlan	no
show logging level ptp	no
show logging level radius	no
show logging level res_mgr	no
show logging level rip	no
show logging level routing ipv6 multicast	no



<b>Show Commands</b>	<b>XML Support</b>
show logging level routing multicast	no
show logging level rpm	no
show logging level rsvp	no
show logging level sal	no
show logging level san-port-channel	no
show logging level scheduler	no
show logging level security	no
show logging level segment-routing	no
show logging level session-mgr	no
show logging level sflow	no
show logging level smartc	no
show logging level smm	no
show logging level snmpd	no
show logging level snmpmib_proc	no
show logging level spanning-tree	no
show logging level spm	no
show logging level stripcl	no
show logging level sysmgr	no
show logging level tacacs	no
show logging level telemetry	no
show logging level template_manager	no
show logging level track	no
show logging level tunnel	no
show logging level u2rib	no
show logging level u6rib	no
show logging level udld	no
show logging level ufdm	no
show logging level urib	no

Show Commands	XML Support
show logging level vdc_mgr	no
show logging level virtual-service	no
show logging level vlan_mgr	no
show logging level vmm	no
show logging level vmtracker	no
show logging level vpc	no
show logging level vrrp-cfg	no
show logging level vrrp-eng	no
show logging level vrrpv3	no
show logging level vsan	no
show logging level vshd	no
show logging level vtp	no
show logging level wwn	no
show logging level xbar	no
show logging logfile	no
show logging logfile duration	no
show logging logfile last-index	no
show logging logfile start-seqn	no
show logging logfile start-time	no
show logging loopback	no
show logging module	no
show logging monitor	no
show logging nvram	yes
show logging onboard	no
show logging onboard kernel-trace	no
show logging origin-id	no
show logging pending	no
show logging pending-diff	no

Show Commands	XML Support
show logging rate-limit	no
show logging rfc-strict	no
show logging server	yes
show logging session status	no
show logging source-interface	no
show logging status	no
show logging timestamp	no
show login on-failure log	yes
show login on-successful log	yes
show mac address-table	yes
show mac address-table aging-time	yes
show mac address-table count	yes
show mac address-table count es	yes
show mac address-table learning-mode	yes
show mac address-table loop-detect	yes
show mac address-table multicast	yes
show mac address-table notification mac-move	yes
show mac scalar	yes
show mac-list	yes
show macsec mka	yes
show macsec mka session	yes
show macsec mka statistics	yes
show macsec policy	yes
show macsec secy statistics	yes
show maintenance maint-delay	yes
show maintenance on-reload reset-reasons	yes
show maintenance profile	yes
show maintenance snapshot-delay	yes

Show Commands	XML Support
show maintenance timeout	yes
show module	yes
show module bandwidth-fairness	yes
show module uptime	yes
show monitor	yes
show mpls forwarding statistics	yes
show mpls interfaces	yes
show mpls interfaces detail	yes
show mpls interfaces statistics	yes
show mpls ip bindings	yes
show mpls ip bindings summary	yes
show mpls ip ttl	yes
show mpls label range	yes
show mpls load-sharing	yes
show mpls oam echo statistics	yes
show mpls static binding	yes
show mpls static trace	no
show mpls strip labels	yes
show mpls switching	yes
show mpls switching clients	yes
show mvpn bgp mdt	yes
show mvpn mdt encap	yes
show mvpn mdt route	yes
show nbm defaults	yes
show nbm flow-policy	yes
show nbm flows	yes
show nbm flows static	yes
show nbm flows statistics	yes

Show Commands	XML Support
show nbm flows summary	yes
show nbm host-policy all	yes
show nbm host-policy applied receiver	yes
show nbm host-policy applied sender	yes
show nbm interface bandwidth	yes
show ngoam interface statistics	yes
show ngoam loopback	yes
show ngoam pathtrace	yes
show ngoam probe	yes
show ngoam traceroute statistics	yes
show ngoam xconnect session	yes
show npv external-interface-usage	yes
show npv flogi-table	yes
show npv status	yes
show npv traffic-map	yes
show ntp access-groups	yes
show ntp authentication-keys	yes
show ntp authentication-status	yes
show ntp information	yes
show ntp logging-status	yes
show ntp peer-status	yes
show ntp peers	yes
show ntp rts-update	yes
show ntp session status	yes
show ntp source	yes
show ntp source-interface	yes
show ntp statistics	yes
show ntp status	yes

Show Commands	XML Support
show ntp trusted-keys	yes
show nve adjacency mpls	yes
show nve bfd neighbors	yes
show nve core-links	yes
show nve ethernet-segment	yes
show nve evi	yes
show nve interface	yes
show nve mpls	yes
show nve multisite dc-links	yes
show nve multisite fabric-links	yes
show nve peers	yes
show nve peers interface counters	yes
show nve peers mpls	yes
show nve peers vni interface counters	yes
show nve replication-servers	yes
show nve vni	yes
show nve vni counters	yes
show nve vni ingress-replication	yes
show nve vrf	yes
show nve vxlan-params	yes
show nxapi	yes
show nxapi-server logs	no
show object-group	yes
show openflow hardware capabilities	no
show openflow switch	yes
show openflow switch flows	no
show ospfv3	yes
show ospfv3 border-routers	yes

Show Commands	XML Support
show ospfv3 database	yes
show ospfv3 database database-summary	yes
show ospfv3 database detail	yes
show ospfv3 interface	yes
show ospfv3 interface brief	yes
show ospfv3 neighbors	yes
show ospfv3 neighbors detail	yes
show ospfv3 neighbors summary	yes
show ospfv3 request-list	yes
show ospfv3 retransmission-list	yes
show ospfv3 route	yes
show ospfv3 route summary	yes
show ospfv3 statistics	yes
show ospfv3 summary-address	yes
show ospfv3 traffic	yes
show ospfv3 virtual-links	yes
show ospfv3 virtual-links brief	yes
show otv	no
show param-list	yes
show password secure-mode	yes
show password strength-check	yes
show plb	yes
show plb analytics	yes
show plb vrf	yes
show pmap-int	no
show pmap-int-br interface br	yes
show pnp lease	no
show pnp posix_pi configs	no

Show Commands	XML Support
show pnp posix_pi tech-support	no
show pnp profiles	no
show pnp status	no
show pnp summary	no
show pnp version	no
show policy-map	yes
show policy-map interface control-plane	yes
show policy-map system	yes
show policy-map type control-plane	yes
show policy-map type network-qos	yes
show port naming	no
show port-channel capacity	yes
show port-channel compatibility-parameters	yes
show port-channel database	yes
show port-channel fast-convergence	yes
show port-channel load-balance	yes
show port-channel load-balance forwarding-path1 interface src-interface	yes
show port-channel load-balance hardware forwarding-path interface source	yes
show port-channel rbh-distribution	yes
show port-channel scale-fanout	yes
show port-channel summary	yes
show port-channel traffic	yes
show port-channel usage	yes
show port-license	yes
show port-profile	yes
show port-profile brief	yes
show port-profile expand-interface	yes
show port-profile sync-status	yes



Show Commands	XML Support
show port-profile usage	yes
show port-security	yes
show port-security address	yes
show port-security address interface	yes
show port-security interface	yes
show port-security state	yes
show postcard-telemetry exporter	yes
show postcard-telemetry flow-profile	yes
show postcard-telemetry monitor	yes
show postcard-telemetry queue-profile	yes
show postcard-telemetry sessions	yes
show postcard-telemetry watchlist	yes
show power inline	yes
show power inline police	yes
show power inline priority	yes
show privilege	yes
show processes	yes
show processes cpu	yes
show processes cpu history	no
show processes cpu history data	yes
show processes log	yes
show processes log details	yes
show processes log pid	yes
show processes log vdc-all	yes
show processes memory	yes
show processes memory physical	yes
show processes memory shared	yes
show processes vdc	yes

Show Commands	XML Support
show processes vdc cpu	yes
show processes vdc log	yes
show processes vdc log details	no
show processes vdc log pid	no
show processes vdc memory	yes
show pss debug	no
show ptp brief	yes
show ptp clock	yes
show ptp clock foreign-masters record	yes
show ptp corrections	yes
show ptp counters interface	yes
show ptp packet-trace	yes
show ptp parent	yes
show ptp port interface	yes
show ptp time-property	yes
show qos dcbxp incompatibility interface	yes
show qos dcbxp info	yes
show qos dcbxp interface	yes
show queuing	yes
show queuing pfc-queue	yes
show queuing pfc-queue snmp ifIndex	yes
show queuing tabular	yes
show radius status	yes
show radius-cfs	yes
show radius-server	yes
show radius-server directed-request	yes
show radius-server groups	yes
show radius-server sorted	yes

Show Commands	XML Support
show radius-server statistics	yes
show redundancy status	yes
show regexp	no
show reload	yes
show resource	yes
show rmon	yes
show role	yes
show role feature	yes
show role feature-group	yes
show rollback log exec	yes
show rollback status	yes
show route-map	yes
show route-map pbr-statistics	yes
show router-guard	yes
show routing	yes
show routing clients	yes
show routing hash	yes
show routing hidden-nh	yes
show routing ipv6	yes
show routing ipv6 clients	yes
show routing ipv6 hash	yes
show routing ipv6 hidden-nh	yes
show routing ipv6 memory estimate	yes
show routing ipv6 memory statistics	yes
show routing ipv6 multicast	yes
show routing ipv6 multicast clients	yes
show routing ipv6 multicast memory estimate	yes
show routing ipv6 nhlfe	yes

Show Commands	XML Support
show routing ipv6 recursive-next-hop	yes
show routing memory estimate	yes
show routing memory statistics	yes
show routing multicast clients	yes
show routing multicast lisp encap	yes
show routing multicast mdt encapsulation	yes
show routing multicast memory estimate	yes
show routing nhlfe	yes
show routing recursive-next-hop	yes
show routing vxlan-hash peer-ip	no
show routing vxlan-hash peer-ipv6	no
show routing-context	yes
show running-config	no
show running-config aaa	no
show running-config acllog	no
show running-config aclmgr	no
show running-config adjmgr	no
show running-config all	no
show running-config arp	no
show running-config assoc	no
show running-config backup	no
show running-config bfd	no
show running-config bgp	no
show running-config bloggerd	no
show running-config callhome	no
show running-config catena	no
show running-config cdp	no
show running-config cert-enroll	no

<b>Show Commands</b>	<b>XML Support</b>
show running-config cfs	no
show running-config clock_manager	no
show running-config config-profile	no
show running-config config-template	no
show running-config controller	no
show running-config copp	no
show running-config dhcp	no
show running-config diagnostic	no
show running-config diff	no
show running-config dot1x	no
show running-config ecp	no
show running-config eem	no
show running-config eigrp	no
show running-config eltm	no
show running-config evb	no
show running-config exclude	no
show running-config expand-port-profile	no
show running-config fabric forwarding	no
show running-config fabric multicast	no
show running-config fabricpath	no
show running-config fabricpath domain default	no
show running-config fabricpath switch-id	no
show running-config fabricpath topology	no
show running-config fcoe_mgr	no
show running-config hardware-telemetry	no
show running-config hsrp	no
show running-config icam	no
show running-config icmpv6	no

Show Commands	XML Support
show running-config igmp	no
show running-config imp	no
show running-config interface	no
show running-config ip	no
show running-config ipqos	no
show running-config ipv6	no
show running-config isis	no
show running-config l3vm	no
show running-config ldap	no
show running-config license	no
show running-config lisp	no
show running-config lldp	no
show running-config macsec	no
show running-config mmode	no
show running-config monitor	no
show running-config mpls static	no
show running-config mpls strip	no
show running-config mpls traffic-eng	no
show running-config msdp	no
show running-config nat	no
show running-config nbm	no
show running-config ngoam	no
show running-config ntp	no
show running-config nv overlay	no
show running-config nxsdk	no
show running-config openflow	no
show running-config ospf	no
show running-config ospfv3	no

Show Commands	XML Support
show running-config otv	no
show running-config otv-isis	no
show running-config param-list	no
show running-config pim	no
show running-config pim6	no
show running-config plb-services	no
show running-config poe	no
show running-config port-profile	no
show running-config port-security	no
show running-config ptp	no
show running-config radius	no
show running-config rip	no
show running-config routing ip multicast	no
show running-config routing ipv6 multicast	no
show running-config rpm	no
show running-config rsvp	no
show running-config scheduler	no
show running-config section	no
show running-config security	no
show running-config segment-routing	no
show running-config services	no
show running-config sflow	no
show running-config sla responder	no
show running-config sla sender	no
show running-config sla twamp-server	no
show running-config smart-channel	no
show running-config snmp	no
show running-config spanning-tree	no

Show Commands	XML Support
show running-config rte	no
show running-config switch	no
show running-config tacacs	no
show running-config telemetry	no
show running-config track	no
show running-config udd	no
show running-config vdc	no
show running-config vdc-all	no
show running-config virtual-service	no
show running-config vlan	no
show running-config vmtracker	no
show running-config vpc	no
show running-config vrf	no
show running-config vrf default	no
show running-config vrrp	no
show running-config vrrpv3	no
show running-config vshd	no
show running-config vtp	no
show running-config wwnm	no
show san-port-channel compatibility-parameters	yes
show san-port-channel consistency	yes
show san-port-channel consistency detail	yes
show san-port-channel database	yes
show san-port-channel summary	yes
show san-port-channel usage	yes
show scheduler config	yes
show scheduler job	yes
show scheduler logfile	yes



Show Commands	XML Support
show scheduler schedule	yes
show segment-routing	yes
show segment-routing clients	yes
show segment-routing ipv4 connected-prefix-sid-map	yes
show segment-routing mpls	yes
show segment-routing mpls clients	yes
show segment-routing mpls ipv4 connected-prefix-sid-map	yes
show sflow	yes
show sflow statistics	yes
show smart-channel	yes
show snapshots	yes
show snapshots compare	yes
show snapshots compare ipv4routes	yes
show snapshots compare ipv6routes	yes
show snapshots compare summary	yes
show snapshots dump	yes
show snapshots sections	yes
show snmp	yes
show snmp community	yes
show snmp context	yes
show snmp engineID	yes
show snmp group	yes
show snmp host	yes
show snmp mib igmpCacheTable	yes
show snmp mib igmpInterfaceTable	yes
show snmp nms-statistics	yes
show snmp oid-statistics	yes
show snmp sessions	yes

Show Commands	XML Support
show snmp source-interface	yes
show snmp trap	yes
show snmp user	yes
show sockets client	yes
show sockets connection	yes
show sockets local-port-range	yes
show sockets ns-port-kiosk	yes
show sockets statistics	yes
show sockets tcp keychain binding	yes
show spanning-tree	yes
show spanning-tree blockedports	yes
show spanning-tree bridge	yes
show spanning-tree inconsistentports	yes
show spanning-tree interface	yes
show spanning-tree issu-impact	yes
show spanning-tree mst	yes
show spanning-tree mst configuration	yes
show spanning-tree mst configuration digest	yes
show spanning-tree mst interface	yes
show spanning-tree pathcost method	yes
show spanning-tree root	yes
show spanning-tree summary	yes
show spanning-tree summary totals	yes
show srte pce ipv4 peer	yes
show srte policy	yes
show srte policy fh	yes
show ssh key	yes
show ssh server	yes

Show Commands	XML Support
show ssx details	yes
show ssx exporter	yes
show ssx monitor	yes
show ssx record	yes
show startup-config	no
show startup-config aaa	no
show startup-config aclog	no
show startup-config aclmgr	no
show startup-config adjmgr	no
show startup-config arp	no
show startup-config assoc	no
show startup-config backup	no
show startup-config bfd	no
show startup-config bgp	no
show startup-config bloggerd	no
show startup-config callhome	no
show startup-config catena	no
show startup-config cdp	no
show startup-config cert-enroll	no
show startup-config cfs	no
show startup-config config-profile	no
show startup-config copp	no
show startup-config dhcp	no
show startup-config diagnostic	no
show startup-config dot1x	no
show startup-config ecp	no
show startup-config eem	no
show startup-config eigrp	no

Show Commands	XML Support
show startup-config eltm	no
show startup-config evb	no
show startup-config exclude	no
show startup-config expand-port-profile	no
show startup-config fabric forwarding	no
show startup-config fabric multicast	no
show startup-config fabricpath	no
show startup-config fabricpath domain default	no
show startup-config fabricpath switch-id	no
show startup-config fabricpath topology	no
show startup-config fcoe_mgr	no
show startup-config glbp	no
show startup-config hardware-telemetry	no
show startup-config hsrp	no
show startup-config icam	no
show startup-config icmpv6	no
show startup-config igmp	no
show startup-config imp	no
show startup-config interface	no
show startup-config ip	no
show startup-config ipqos	no
show startup-config ipv6	no
show startup-config isis	no
show startup-config l3vm	no
show startup-config ldap	no
show startup-config license	no
show startup-config lisp	no
show startup-config lldp	no

<b>Show Commands</b>	<b>XML Support</b>
show startup-config log	no
show startup-config macsec	no
show startup-config mmode	no
show startup-config monitor	no
show startup-config mpls static	no
show startup-config mpls strip	no
show startup-config mpls traffic-eng	no
show startup-config msdp	no
show startup-config nat	no
show startup-config nbm	no
show startup-config ngoam	no
show startup-config ntp	no
show startup-config nv overlay	no
show startup-config nxsdk	no
show startup-config openflow	no
show startup-config ospf	no
show startup-config ospfv3	no
show startup-config otv	no
show startup-config otv-isis	no
show startup-config param-list	no
show startup-config pim	no
show startup-config pim6	no
show startup-config plb-services	no
show startup-config poe	no
show startup-config port-profile	no
show startup-config port-security	no
show startup-config ptp	no
show startup-config radius	no

Show Commands	XML Support
show startup-config rip	no
show startup-config routing ip multicast	no
show startup-config routing ipv6 multicast	no
show startup-config rpm	no
show startup-config rsvp	no
show startup-config scheduler	no
show startup-config security	no
show startup-config segment-routing	no
show startup-config services	no
show startup-config sflow	no
show startup-config sla responder	no
show startup-config sla sender	no
show startup-config sla twamp-server	no
show startup-config smart-channel	no
show startup-config snmp	no
show startup-config srte	no
show startup-config switch	no
show startup-config tacacs	no
show startup-config telemetry	no
show startup-config track	no
show startup-config udd	no
show startup-config vdc	no
show startup-config vdc-all	no
show startup-config virtual-service	no
show startup-config vlan	no
show startup-config vmtracker	no
show startup-config vpc	no
show startup-config vrf	no

Show Commands	XML Support
show startup-config vrf default	no
show startup-config vrrpv3	no
show startup-config vshd	no
show startup-config vtp	no
show startup-config wwnm	no
show summary	no
show switch-profile	yes
show switch-profile buffer	yes
show switch-profile peer	yes
show switch-profile status	yes
show switch-scope controller	no
show switching-mode	yes
show switching-mode fabric-speed	yes
show system acl	yes
show system auto-collect tech-support	yes
show system boottime	yes
show system config reload-pending	yes
show system cores	yes
show system default switchport	yes
show system error-id	yes
show system exception-info	yes
show system fast-reload stabilization-timer	yes
show system image-verification	yes
show system inband queuing statistics	yes
show system inband queuing status	yes
show system login	yes
show system login failures	yes
show system memory-thresholds	yes

Show Commands	XML Support
show system mode	yes
show system poap	yes
show system pss shrink status	yes
show system redundancy ha status	yes
show system redundancy status	yes
show system reset-reason	yes
show system reset-reason module	yes
show system resources	yes
show system resources all-modules	yes
show system routing mode	yes
show system security	yes
show system standby manual-boot	yes
show system switch-mode	yes
show system uptime	yes
show system verify bios flash	yes
show system vlan reserved	yes
show table-map	yes
show tacacs-server	yes
show tacacs-server directed-request	yes
show tacacs-server groups	yes
show tacacs-server sorted	yes
show tacacs-server statistics	yes
show tech-support	no
show tech-support aaa	no
show tech-support aclmgr	no
show tech-support aclmgr compressed	no
show tech-support aclqos	no
show tech-support aclqos compressed	no



<b>Show Commands</b>	<b>XML Support</b>
show tech-support adjmgr	no
show tech-support all	no
show tech-support all binary	no
show tech-support analytics	no
show tech-support arp	no
show tech-support ascii-cfg	no
show tech-support assoc_mgr	no
show tech-support backup	no
show tech-support bfd	no
show tech-support bgp	no
show tech-support biosd	no
show tech-support bloggerd	no
show tech-support bloggerd-all	no
show tech-support bootvar	no
show tech-support brief	no
show tech-support callhome	no
show tech-support cdp	no
show tech-support cert-enroll	no
show tech-support cfs	no
show tech-support cli	no
show tech-support clis	no
show tech-support clock_manager	no
show tech-support commands	no
show tech-support controller	no
show tech-support copp	no
show tech-support dcbx	no
show tech-support details	no
show tech-support dhclient	no

Show Commands	XML Support
show tech-support dhcp	no
show tech-support dme	no
show tech-support dot1x	no
show tech-support ecp	no
show tech-support eem	no
show tech-support eigrp	no
show tech-support eltm	no
show tech-support ethpm	no
show tech-support evb	no
show tech-support fabric forwarding	no
show tech-support fabric multicast	no
show tech-support fabricpath isis	no
show tech-support fabricpath topology	no
show tech-support fast-reload	no
show tech-support fc2	no
show tech-support fcoe	no
show tech-support fips	no
show tech-support forwarding l2 multicast	no
show tech-support forwarding l2 multicast vdc-all	no
show tech-support forwarding l2 unicast	no
show tech-support forwarding l3 multicast	no
show tech-support forwarding l3 multicast detail	no
show tech-support forwarding l3 multicast detail vdc-all	no
show tech-support forwarding l3 multicast vdc-all	no
show tech-support forwarding l3 unicast	no
show tech-support forwarding l3 unicast detail	no
show tech-support forwarding l3 unicast detail vdc-all	no
show tech-support forwarding l3 unicast vdc-all	no

Show Commands	XML Support
show tech-support forwarding mpls	no
show tech-support forwarding multicast	no
show tech-support gold	no
show tech-support gpixm	no
show tech-support ha	no
show tech-support ha module	no
show tech-support ha standby	no
show tech-support ha_short	no
show tech-support hardware-telemetry	no
show tech-support hsrp	no
show tech-support hsrp brief	no
show tech-support icam	no
show tech-support icmpv6	no
show tech-support im	no
show tech-support imp	no
show tech-support inband counters	no
show tech-support include-time	no
show tech-support install	no
show tech-support interface-vlan	no
show tech-support ip	no
show tech-support ip igmp	no
show tech-support ip igmp snooping	no
show tech-support ip msdp	no
show tech-support ip pim	no
show tech-support ipqos	no
show tech-support ipv6	no
show tech-support ipv6 mld	no
show tech-support ipv6 multicast	no

Show Commands	XML Support
show tech-support ipv6 pim	no
show tech-support isis	no
show tech-support issu	no
show tech-support kstack	no
show tech-support l2	no
show tech-support l2fm	no
show tech-support l2fm clients	no
show tech-support l2fm detail	no
show tech-support l2fm l2dbg	no
show tech-support l2rib	no
show tech-support l3vm	no
show tech-support l3vpn	no
show tech-support lacp	no
show tech-support ldap	no
show tech-support license	no
show tech-support lim	no
show tech-support lisp	no
show tech-support lldp	no
show tech-support logging	no
show tech-support m2rib	no
show tech-support macsec	no
show tech-support macsec detail	no
show tech-support mfwd	no
show tech-support mmode	no
show tech-support module	no
show tech-support module all	no
show tech-support monitor	no
show tech-support monitor erspan	no

<b>Show Commands</b>	<b>XML Support</b>
show tech-support monitorc-all	no
show tech-support mpls manager	no
show tech-support mpls static	no
show tech-support mpls strip	no
show tech-support mpls switching	no
show tech-support mpls traffic-eng	no
show tech-support mpls fwd	no
show tech-support multicast	no
show tech-support multicast-vxlan-evpn	no
show tech-support mvpn	no
show tech-support nat	no
show tech-support nbm	no
show tech-support nbm group	no
show tech-support netflow	no
show tech-support netstack	no
show tech-support netstack detail	no
show tech-support ngoam	no
show tech-support npacl	no
show tech-support npv	no
show tech-support ns	no
show tech-support ntp	no
show tech-support nve	no
show tech-support nxapi	no
show tech-support nx sdk	no
show tech-support object-store	no
show tech-support openflow	no
show tech-support openflow platform	no
show tech-support ospf	no

Show Commands	XML Support
show tech-support ospfv3	no
show tech-support otv	no
show tech-support page	no
show tech-support patch	no
show tech-support pbr	no
show tech-support pfstat	no
show tech-support pixm	no
show tech-support pixm-all	no
show tech-support pixmc-all	no
show tech-support pktmgr	no
show tech-support platform-sdk	no
show tech-support plb-services	no
show tech-support plcmgr	no
show tech-support pltfm-config	no
show tech-support pnp	no
show tech-support poe	no
show tech-support port	no
show tech-support port-channel	no
show tech-support port-client-all	no
show tech-support port-profile	no
show tech-support port-security	no
show tech-support private-vlan	no
show tech-support ptp	no
show tech-support radius	no
show tech-support rip	no
show tech-support routing	no
show tech-support routing ipv6	no
show tech-support routing ipv6 multicast	no

Show Commands	XML Support
show tech-support routing multicast	no
show tech-support rpm	no
show tech-support sal	no
show tech-support san	no
show tech-support san-port-channel	no
show tech-support satmgr	no
show tech-support security	no
show tech-support segment-routing	no
show tech-support services	no
show tech-support session-mgr	no
show tech-support sflow	no
show tech-support sksd	no
show tech-support sla responder	no
show tech-support sla sender	no
show tech-support sla twamp-server	no
show tech-support smartc	no
show tech-support smm	no
show tech-support snmp	no
show tech-support sockets	no
show tech-support spm	no
show tech-support srte	no
show tech-support statsclient	no
show tech-support stp	no
show tech-support sup-filesys	no
show tech-support sysmgr	no
show tech-support tacacs	no
show tech-support telemetry	no
show tech-support track	no

Show Commands	XML Support
show tech-support tunnel	no
show tech-support udd	no
show tech-support usd-all	no
show tech-support vdc	no
show tech-support virtual-service	no
show tech-support vlan	no
show tech-support vmtracker	no
show tech-support vpc	no
show tech-support vrrp	no
show tech-support vrrp brief	no
show tech-support vrrpv3	no
show tech-support vsan	no
show tech-support vshd	no
show tech-support vtp	no
show tech-support vvlan	no
show tech-support vxlan	no
show tech-support vxlan platform	no
show tech-support xbar	no
show tech-support xml	no
show tech-support xos	no
show telemetry control database	yes
show telemetry data collector brief	yes
show telemetry event collector stats	yes
show telemetry pipeline stats	yes
show telemetry transport	yes
show telemetry usability	yes
show telnet server	yes
show terminal	yes



Show Commands	XML Support
show terminal output xml version	yes
show time-range	yes
show time-stamp running-config last-changed	yes
show trace callhome	no
show track	yes
show track brief	yes
show troubleshoot l3 vrf	no
show trunk protocol	yes
show ttag brief	yes
show udd	yes
show udd global	yes
show udd neighbors	yes
show user-account	yes
show username keypair	yes
show username passphrase timevalues	yes
show userpassphrase	yes
show users	yes
show vdc	yes
show vdc current-vdc	yes
show vdc fcoe-vlan-range	yes
show vdc resource	yes
show vdc resource template	yes
show version	yes
show version epld	yes
show version image	yes
show version module	yes
show virtual-service	yes
show virtual-service storage pool list	yes

Show Commands	XML Support
show virtual-service tech-support	no
show virtual-service utilization name	yes
show virtual-service version	yes
show vlan	yes
show vlan access-list	yes
show vlan access-map	yes
show vlan counters	yes
show vlan dot1Q tag native	yes
show vlan fcoe	yes
show vlan filter	yes
show vlan id	yes
show vlan id counters	yes
show vlan id vn-segment	yes
show vlan name	yes
show vlan private-vlan	yes
show vlan private-vlan type	yes
show vlan xbrief	yes
show vlan xsummary	yes
show vmtracker	yes
show vmtracker certificate	yes
show vmtracker fabric auto-config	yes
show vmtracker status	yes
show vpc	yes
show vpc consistency-parameters	yes
show vpc consistency-parameters vlans	yes
show vpc fabric-ports	yes
show vpc orphan-ports	yes
show vpc peer-keepalive	yes

Show Commands	XML Support
show vpc role	yes
show vpc statistics peer-keepalive	yes
show vpc statistics vpc	no
show vpc virtual-peerlink dest reachable	no
show vpc virtual-peerlink vlan consistency	no
show vrf	no
show vrf	yes
show vrrp	yes
show vrrp bfd-sessions	yes
show vrrpv3	yes
show vrrs client	yes
show vrrs pathway	yes
show vrrs server	yes
show vrrs tag	yes
show vsan	yes
show vsan membership	yes
show vsan membership interface	yes
show vsan usage	yes
show vtp counters	yes
show vtp interface	yes
show vtp password	yes
show vtp status	yes
show wred-queue qos-group-map	yes
show wrr unicast-bandwidth	yes
show wrr-queue qos-group-map	yes
show wwn status	yes
show wwn switch	yes
show wwn test	no

Show Commands	XML Support
show wwn vsan-wwn	yes
show xml server logging configuration	no
show xml server status	yes