Cisco Nexus 9000 Series NX-OS Command Reference (Show Commands), Release 6.1(2)I2(2)

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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

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CONTENTS

Preface

Preface xlix

Audience xlix

Documentation Conventions l

Documentation Feedback li

Obtaining Documentation and Submitting a Service Request li

CHAPTER 1

READ ME FIRST 1

CHAPTER 2

A Show Commands 3

show (eigrp) 4

show aaa accounting 9

show aaa authentication 10

show aaa authentication login 11

show aaa authentication login ascii-authentication 12

show aaa authentication login error-enable 13

show aaa authentication login password-aging 14

show aaa authorization 15

show aaa groups 16

show aaa user default-role 17

show access-lists 18

show accounting log 28

show accounting log all 30

show accounting log last-index 31

show accounting log nvram 32

show accounting log nvram last-index 34

show accounting log nvram start-seqnum 35

show accounting log start-seqnum 36

show acl status 37

show arp access-lists 38

CHAPTER 3 B Show Commands 43

show background 45

show banner motd 46

show bash-shell 47

show bfd-app session status 48

show bfd addrmap 50

show bfd discrmap 51

show bfd intfipmap 52

show bfd neighbors 53

show bfd scalar 59

show bfd session 60

show bgp (bgp) 68

show bgp (bgp) 74

show bgp (bgp) 78

show bgp (bgp) 79

show bgp (bgp) 83

show bgp (bgp) 86

show bgp (bgp) 89

show bgp (bgp) 90

show bgp community 93

show bgp convergence 97

show bgp convergence private 99

show bgp dampening 100

show bgp default-info 104

show bgp extcommunity 105

show bgp l3vpn 109

show bgp neighbors (bgp) 113

show bgp neighbors (bgp) 116

show bgp neighbors commands 125

show bgp neighbors flap-statistics 127

show bgp neighbors paths 129

show bgp paths 131

show bgp peer-template 132
show bgp prefix-list 135
show bgp private 138
show bgp private attr 140
show bgp private damp 141
show bgp process 142
show bgp received-paths 146
show bgp regexp 149
show bgp self-originated 153
show bgp sessions 156
show bgp statistics 158
show bgp summary (bgp) 159
show bgp summary (bgp) 165
show boot 171
show boot auto-copy 172
show boot auto-copy list 173
show boot current 174
show boot module 175
show boot sup-1 176
show boot sup-2 177
show boot variables 178
show bootmode 179
show buffers ip 180

CHAPTER 4 C Show Commands 181

show callhome 184
show callhome destination-profile 186
show callhome destination-profile profile 187
show callhome destination-profile profile CiscoTAC-1 189
show callhome destination-profile profile full-txt-destination 190
show callhome destination-profile profile short-txt-destination 191
show callhome transport 192
show callhome transport-email 194
show callhome user-def-cmds 195
show cdp (cdpd) 196

show cdp (cdpd) 197
show cdp global 199
show cdp neighbors 200
show cdp neighbors detail 202
show cdp traffic interface2 205
show cfs application 207
show cfs lock 209
show cfs merge status 211
show cfs peers 214
show cfs regions 216
show cfs remote-app vsan domain 218
show cfs remote-switches vsan 219
show cfs static peers 220
show cfs status 221
show checkpoint (cfg_rollback) 222
show checkpoint (cfg_rollback) 223
show checkpoint summary 224
show class-map 225
show class-map type control-plane 231
show class-map type network-qos 236
show cli alias 237
show cli dynamic integers 238
show cli dynamic strings 239
show cli history 240
show cli interface table 241
show cli list 242
show cli registry 243
show cli syntax 244
show cli variables 245
show clock 246
show clock utc 248
show configuration session (ssnmgr) 249
show configuration session (ssnmgr) 250
show configuration session global-info 251
show configuration session status 252

show configuration session summary 254
show consistency-checker forwarding ipv6show forwarding ipv6 inconsistency 255
show consistency-checker forwardingshow forwarding inconsistency 257
show consistency-checker racl port-channels 259
show copp diff profile profile2 260
show copp profile 262
show copp status 274
show copyright 276
show cores 277
show crypto ca certificates (certen_tree) 279
show crypto ca certificates (certen_tree) 280
show crypto ca certstore 281
show crypto ca crl 282
show crypto ca remote-certstore 283
show crypto ca trustpoints 284
show crypto certificatemap 285
show crypto key mypubkey rsa 286
show crypto ssh-auth-map 287
show current 288

CHAPTER 5 D Show Commands 289

show default-interface log 290
show diagnostic bootup level 291
show diagnostic content module 292
show diagnostic events 294
show diagnostic ondemand setting 295
show diagnostic result module all 296
show diagnostic simulation module 299
show diagnostic status module 300
show diff rollback-patch 302
show dot1q-tunnel 304
show dot1q-tunnel interface 305

CHAPTER 6 E Show Commands 307

show eigrp 309

show eigrp accounting 312
show eigrp event 314
show eigrp interfaces 316
show eigrp metric 319
show eigrp sia-event 321
show eigrp sia-statistics 323
show eigrp timers 324
show eigrp traffic 325
show email 327
show encryption service stat 328
show environment 329
show environment fex 337
show eol status 341
show errdisable 342
show errdisable flap 346
show event-history 347
show event-history xbar 348
show event manager environment 349
show event manager event-types 350
show event manager events action-log 351
show event manager history events 352
show event manager policy-state 353
show event manager script system 354
show event manager system-policy 355

CHAPTER 7 F Show Commands 357

show fabricpath counters dropped 360
show fabricpath load-balance 361
show fabricpath load-balance multicast ftag-selected flow-type 362
show fabricpath load-balance unicast forwarding-path ftag switchid flow-type 365
show fabricpath topology 368
show fabricpath topology interface 369
show fabricpath topology interface vlan 370
show fabricpath topology vlan 371
show feature 372

show feature-set 373
show feature-set services 375
show fex (satmgr) 376
show fex (satmgr) 379
show fex detail 383
show fex transceiver 386
show fex version 387
show file 388
show fips status 389
show forwarding 390
show forwarding adjacency 394
show forwarding bypass-hardware 397
show forwarding capture 398
show forwarding distribution 399
show forwarding distribution capture 400
show forwarding distribution clients 401
show forwarding distribution fib-state 402
show forwarding distribution ip igmp snooping 404
show forwarding distribution ipv6 multicast route 406
show forwarding distribution l2 multicast 409
show forwarding distribution lisp counters 411
show forwarding distribution lisp vrf enabled 412
show forwarding distribution logging 413
show forwarding distribution multicast (mfdm) 414
show forwarding distribution multicast (mfdm) 415
show forwarding distribution multicast client-ack-db 416
show forwarding distribution multicast client 417
show forwarding distribution multicast outgoing-interface-list 418
show forwarding distribution multicast resp-ack-timer-msgs 420
show forwarding distribution multicast route 421
show forwarding distribution otv multicast route 424
show forwarding distribution peer-id 426
show forwarding distribution trace 427
show forwarding ecmp 428
show forwarding ecmp recursive 430

show forwarding file-log disable 432
show forwarding file-log enable 433
show forwarding interfaces 434
show forwarding ipv6 435
show forwarding ipv6 adjacency 438
show forwarding ipv6 multicast route 440
show forwarding ipv6 pss route 443
show forwarding l2 multicast 444
show forwarding l2vpn ipv6 multicast route 446
show forwarding l2vpn label vpls 447
show forwarding l2vpn label xconnect 448
show forwarding l2vpn multicast outgoing-interface-list 449
show forwarding l2vpn multicast route 450
show forwarding l2vpn service vpls 451
show forwarding l2vpn service xconnect 453
show forwarding l2vpn vlan 454
show forwarding mpls 455
show forwarding mpls aggregate 457
show forwarding mpls cbts 458
show forwarding mpls ecmp 459
show forwarding mpls summary 461
show forwarding mpls te 462
show forwarding multicast outgoing-interface-list 464
show forwarding multicast route 465
show forwarding otv 469
show forwarding otv ipv6 multicast route 470
show forwarding otv multicast outgoing-interface-list 474
show forwarding otv multicast route 476
show forwarding otv vlan 477
show forwarding pss route 478
show forwarding restart 479
show forwarding security group-tag 480
show forwarding security mac 482
show forwarding trace 484
show forwarding trace profile 485

show forwarding trace profile funcstats 486

CHAPTER 8 G Show Commands 487

show glbp 488

show glbp brief 497

show glbp capability 500

CHAPTER 9 H Show Commands 503

show hardware 505

show hardware access-list lou resource threshold 508

show hardware access-list resource pooling 509

show hardware access-list tcam region 510

show hardware capacity 511

show hardware capacity eobc 512

show hardware capacity forwarding 513

show hardware capacity interface 514

show hardware capacity module 516

show hardware capacity power 518

show hardware fabricpath mac-learning module 520

show hardware feature-capability 521

show hardware forwarding interface statistics mode 522

show hardware forwarding multicast fabric-path ingress 523

show hardware ip verify 525

show hardware mac address-table 526

show hardware qos eoq stats-class 528

show hardware qos ns-buffer-profile 529

show hardware qos ns-mcq3-alias 530

show hardware rate-limiter 531

show hardware rl snmp class-id 534

show hardware rl snmp global class-id 535

show hardware rl snmp local snmp-index class-id 536

show hosts 538

show hsrp 540

show hsrp bfd-sessions 547

show hsrp delay 549

show hsrp ext-mib sec-addr 550
show hsrp ext-mib use-bia 552
show hsrp summary 553

CHAPTER 10 I Show Commands 555

show inactive-if-config log 567
show incompatibility-all nxos 568
show incompatibility nxos 569
show install active 570
show install all failed-standby 571
show install all failure-reason 572
show install all impact 573
show install all impact epld 574
show install all status 575
show install committed 576
show install epld status 577
show install impact (sysmgr_upgradecli) 578
show install impact (sysmgr_upgradecli) 579
show install impact detail 580
show install inactive 581
show install log 582
show install packages 584
show install pkg-info 585
show install request 587
show interface (if_manager) 588
show interface (if_manager) 617
show interface (if_manager) 658
show interface (if_manager) 697
show interface (if_manager) 728
show interface (if_manager) 798
show_interface 835
show interface brief (if_manager) 836
show interface brief (if_manager) 867
show interface brief (if_manager) 868
show interface brief (if_manager) 871

show interface brief (if_manager) 889
show interface brief (if_manager) 918
show interface cable-diagnostics-tdr 936
show interface capabilities (if_manager) 940
show interface capabilities (if_manager) 945
show interface counters (if_manager) 951
show interface counters (if_manager) 953
show interface counters (if_manager) 955
show interface counters (if_manager) 957
show interface counters (if_manager) 960
show interface counters brief 962
show interface counters detailed (if_manager) 964
show interface counters detailed (if_manager) 969
show interface counters detailed (if_manager) 971
show interface counters detailed (if_manager) 981
show interface counters detailed all (if_manager) 999
show interface counters detailed all (if_manager) 1000
show interface counters detailed all (if_manager) 1005
show interface counters detailed all (if_manager) 1007
show interface counters detailed all (if_manager) 1011
show interface counters detailed all (if_manager) 1024
show interface counters errors (if_manager) 1044
show interface counters errors (if_manager) 1046
show interface counters errors (if_manager) 1047
show interface counters errors fex 1049
show interface counters fex 1051
show interface counters snmp 1053
show interface counters snmp fex 1055
show interface counters trunk 1057
show interface debounce (if_manager) 1058
show interface debounce (if_manager) 1059
show interface description (if_manager) 1060
show interface description (if_manager) 1062
show interface description (if_manager) 1064
show interface description (if_manager) 1066

show interface description (if_manager) 1068
show interface description (svi) 1070
show interface fcoe 1071
show interface fex-conf 1072
show interface fex-fabric 1073
show interface fex-intf 1075
show interface flowcontrol (if_manager) 1076
show interface flowcontrol (if_manager) 1078
show interface flowcontrol fex 1080
show interface mac-address (if_manager) 1082
show interface mac-address (if_manager) 1083
show interface priority-flow-control 1084
show interface private-vlan mapping 1086
show interface pruning 1088
show interface snmp-ifindex 1089
show interface status (if_manager) 1090
show interface status (if_manager) 1107
show interface status (if_manager) 1124
show interface status (if_manager) 1167
show interface status (if_manager) 1210
show interface status (svi) 1227
show interface status err-disabled (if_manager) 1228
show interface status err-disabled (if_manager) 1271
show interface status err-vlans (if_manager) 1314
show interface status err-vlans (if_manager) 1318
show interface status fex 1322
show interface switchport (if_manager) 1326
show interface switchport (if_manager) 1329
show interface transceiver (if_manager) 1332
show interface transceiver (if_manager) 1340
show interface transceiver fex-fabric (if_manager) 1347
show interface transceiver fex-fabric (if_manager) 1350
show interface trunk (if_manager) 1357
show interface trunk (if_manager) 1359
show inventory 1361

show inventory fex 1363
show ip (bgp) 1364
show ip (bgp) 1366
show ip adjacency 1368
show ip arp 1371
show ip arp cache 1373
show ip arp client 1374
show ip arp inspection 1375
show ip arp inspection interfaces 1377
show ip arp inspection log 1378
show ip arp inspection statistics 1379
show ip arp inspection vlan 1381
show ip arp off-list 1383
show ip arp snmp pttree 1384
show ip arp statistics 1385
show ip arp tunnel-statistics 1389
show ip arp vaddr 1391
show ip arp vpc-statistics 1392
show ip as-path-access-list 1395
show ip cache 1396
show ip client 1397
show ip community 1399
show ip community-list 1401
show ip dampening 1402
show ip dhcp global statistics 1404
show ip dhcp relay 1406
show ip dhcp relay address 1408
show ip dhcp relay statistics 1409
show ip dhcp snooping 1412
show ip dhcp snooping binding 1414
show ip dhcp snooping statistics 1416
show ip dns source-interface 1419
show ip dns source-interface vrf all 1420
show ip eigrp route-map statistics redistribute 1421
show ip extcommunity 1424

show ip extcommunity-list 1426
show ip fib adjacency 1427
show ip fib distribution 1428
show ip fib distribution capture 1429
show ip fib distribution clients 1430
show ip fib distribution mroute 1431
show ip fib distribution multicast 1433
show ip fib distribution multicast outgoing-interface-list 1434
show ip fib distribution state 1435
show ip fib interfaces 1436
show ip fib mroute 1437
show ip fib mroute txlist 1440
show ip fib route 1441
show ip flap-statistics 1444
show ip ftm statistics 1446
show ip igmp 1447
show ip igmp interfaceshow ip igmp interface 1449
show ip igmp local-groups 1453
show ip igmp policy statistics reports 1455
show ip igmp snooping 1456
show ip igmp snooping explicit-tracking 1458
show ip igmp snooping groups 1459
show ip igmp snooping lookup-mode 1462
show ip igmp snooping mac-oif 1463
show ip igmp snooping mrouter 1464
show ip igmp snooping otv vlan brief 1466
show ip igmp snooping pw vlan brief 1467
show ip igmp snooping querier 1468
show ip igmp snooping snmp mib adminMode 1469
show ip igmp snooping snmp mib aliasingMode 1470
show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus 1471
show ip igmp snooping snmp mib explicitTrackingTable 1472
show ip igmp snooping snmp mib fallBackTime 1473
show ip igmp snooping snmp mib fastBlockEnabled 1474
show ip igmp snooping snmp mib fastleaveenabled 1475

show ip igmp snooping snmp mib filterStatsTable 1476
show ip igmp snooping snmp mib ifAccessGroupTable 1478
show ip igmp snooping snmp mib ifConfigTable 1480
show ip igmp snooping snmp mib ifLimitTable 1481
show ip igmp snooping snmp mib ifLimitTotalTable 1483
show ip igmp snooping snmp mib igmpsnoopingenabled 1485
show ip igmp snooping snmp mib iterfaceStatsTable 1486
show ip igmp snooping snmp mib lastMemeberQueryCount 1489
show ip igmp snooping snmp mib lastMemeberQueryInterval 1490
show ip igmp snooping snmp mib leaveQueryType 1491
show ip igmp snooping snmp mib mcastGroupTable 1492
show ip igmp snooping snmp mib mcastRouterCfgTable 1494
show ip igmp snooping snmp mib mcastRouterConfigTable 1496
show ip igmp snooping snmp mib multicastGroupConfigTable 1498
show ip igmp snooping snmp mib multicastGroupPortListTable 1500
show ip igmp snooping snmp mib multicastGroupTable 1502
show ip igmp snooping snmp mib operMode 1504
show ip igmp snooping snmp mib querierTable 1505
show ip igmp snooping snmp mib reportsuppressionenabled 1507
show ip igmp snooping snmp mib robustnessVariable 1508
show ip igmp snooping snmp mib routerAlertCheckEnabled 1509
show ip igmp snooping snmp mib sourceOnlyEntryAgingTime 1510
show ip igmp snooping snmp mib sourceOnlyLearningEnabled 1511
show ip igmp snooping snmp mib tcnFloodQueryCount 1512
show ip igmp snooping snmp mib timeToLiveCheckEnabled 1513
show ip igmp snooping snmp mib topoChanageQuerySolicitEnabled 1514
show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus 1515
show ip igmp snooping snmp mib v3SnoopingSupport 1516
show ip igmp snooping snmp mib vlanconfigtable 1517
show ip igmp snooping snmp mib vlanFilterConfigTable 1519
show ip igmp snooping statistics (igmp) 1521
show ip igmp snooping statistics (igmp) 1522
show ip igmp vrf all 1525
show ip interface 1526
show ip lisp data-cache 1529

show ip load-sharing 1530
show ip local-pt 1531
show ip local policy 1532
show ip logging 1533
show ip msdp 1534
show ip msdp count 1536
show ip msdp mesh-group 1538
show ip msdp peer 1540
show ip msdp policy statistics sa-policy 1543
show ip msdp rpf 1544
show ip msdp sources 1546
show ip msdp statistics 1548
show ip msdp summary 1550
show ip multicast vrf 1552
show ip neighbors 1554
show ip nexthop 1556
show ip nexthop-database 1557
show ip ospf 1558
show ip ospf border-routers 1564
show ip ospf database 1566
show ip ospf database database-summary 1569
show ip ospf database detail 1571
show ip ospf ha 1577
show ip ospf interface 1579
show ip ospf interface brief 1583
show ip ospf lsa-content-changed-list 1585
show ip ospf memory 1587
show ip ospf mpls ldp interface 1589
show ip ospf neighbors 1591
show ip ospf neighbors detail 1593
show ip ospf neighbors summary 1597
show ip ospf policy statistics 1599
show ip ospf request-list 1601
show ip ospf retransmission-list 1603
show ip ospf route 1605

show ip ospf route summary 1608
show ip ospf sham-links 1611
show ip ospf statistics 1617
show ip ospf summary-address 1621
show ip ospf traffic 1623
show ip ospf traps-queue 1627
show ip ospf virtual-links 1628
show ip ospf virtual-links brief 1634
show ip pim bitfield 1636
show ip pim config-sanity 1637
show ip pim group-range 1638
show ip pim lisp encap 1640
show ip pim mdt 1641
show ip pim mdt bgp 1643
show ip pim mdt history interval 1644
show ip pim mdt receive 1646
show ip pim mdt send 1648
show ip pim oif-list 1650
show ip pim policy statistics (pim) 1652
show ip pim policy statistics (pim) 1654
show ip pim route 1655
show ip pim rp-hash 1658
show ip pim rp 1660
show ip pim statistics 1663
show ip policy 1666
show ip prefix-list (bgp) 1667
show ip prefix-list (rpm) 1669
show ip process 1671
show ip received-paths 1673
show ip rip policy statistics redistribute 1674
show ip router-id 1676
show ip rsvp 1677
show ip rsvp authentication 1680
show ip rsvp counters 1682
show ip rsvp fast-reroute 1689

show ip rsvp hello client lsp 1692
show ip rsvp hello client neighbor 1694
show ip rsvp hello graceful-restart 1695
show ip rsvp hello instance 1697
show ip rsvp interface 1699
show ip rsvp session 1703
show ip rsvp signalling rate-limit 1705
show ip rsvp signalling refresh interval 1706
show ip rsvp signalling refresh misses 1707
show ip rsvp signalling refresh reduction 1708
show ip stats 1709
show ip telnet source-interface 1710
show ip telnet source-interface vrf all 1711
show ip tftp source-interface 1712
show ip tftp source-interface vrf all 1713
show ip traffic 1714
show ip txlist 1719
show ip verify source 1720
show ip vrf 1721
show ipv6 (bgp) 1724
show ipv6 (bgp) 1726
show ipv6 (am) 1727
show ipv6 (bgp) 1730
show ipv6 cache 1731
show ipv6 client 1732
show ipv6 community 1734
show ipv6 dampening 1736
show ipv6 dhcp relay 1738
show ipv6 dhcp relay statistics 1740
show ipv6 eigrp route-map statistics redistribute 1743
show ipv6 extcommunity 1746
show ipv6 flap-statistics 1748
show ipv6 fragments 1749
show ipv6 global traffic 1750
show ipv6 icmp 1753

show ipv6 icmp ndp 1755
show ipv6 icmp off-list 1756
show ipv6 icmp process sdb 1757
show ipv6 icmp snmp pttree 1758
show ipv6 icmp vaddr 1759
show ipv6 icmp vpc-statistics 1764
show ipv6 icmp vrf 1767
show ipv6 interface 1773
show ipv6 interface global 1778
show ipv6 lisp data-cache 1779
show ipv6 local-pt 1780
show ipv6 local policy 1781
show ipv6 mld groups 1782
show ipv6 mld local-groups 1784
show ipv6 mld vrf all 1786
show ipv6 mtu 1787
show ipv6 ndp 1789
show ipv6 neighbor static 1790
show ipv6 neighbors 1791
show ipv6 nexthop 1793
show ipv6 nexthop-database 1794
show ipv6 pim bitfield 1795
show ipv6 pim df 1796
show ipv6 pim embed-rp 1798
show ipv6 pim group-range 1799
show ipv6 pim interfaceshow ipv6 pim interface 1801
show ipv6 pim neighbor 1805
show ipv6 pim oif-list 1807
show ipv6 pim policy statistics 1808
show ipv6 pim route 1809
show ipv6 pim rp-hash 1810
show ipv6 pim rp 1812
show ipv6 pim statistics 1815
show ipv6 pim vrf 1818
show ipv6 policy 1819

show ipv6 prefix-list 1820
show ipv6 process 1822
show ipv6 process sdb 1824
show ipv6 received-paths 1825
show ipv6 regexp 1826
show ipv6 rip policy statistics redistribute 1827
show ipv6 routers 1829
show ipv6 static-route 1831
show ipv6 statistics 1833
show ipv6 summary 1834
show ipv6 traffic 1835
show isis (isis) 1837
show isis (isis) 1841
show isis adjacency 1843
show isis csnp 1847
show isis database 1849
show isis ipv6 redistribute route 1854
show isis ipv6 route-map statistics 1857
show isis lsp free-list 1859
show isis mesh-group 1861
show isis redistribute route 1863
show isis route-map statistics 1865
show isis routeshow isis ipv6 routeshow isis route is 1867
show isis rrm 1871
show isis spf-adjacency 1873
show isis spf-log 1875
show isis srm 1877
show isis ssn 1879
show isis statistics 1881
show isis summary-addressshow isis ipv6 summary-address 1883
show isis tlv overflow-list 1885
show isis topology 1886
show isis traffic 1887

CHAPTER 11 K Show Commands 1891

show key chain (rpm) 1892
show key chain (rpm) 1894
show keystore 1896

CHAPTER 12 L Show Commands 1899

show l2protocol tunnel 1905
show lacp counters 1907
show lacp interface 1909
show lacp issu-impact 1915
show lacp neighbor 1916
show lacp port-channel 1918
show lacp system-identifier 1920
show ldap-search-map 1921
show ldap-server 1922
show ldap-server groups 1924
show ldap-server statistics 1926
show license 1928
show license brief 1929
show license file 1930
show license host-id 1931
show license reserved 1932
show license usage 1933
show line 1935
show line console 1937
show line console connected 1939
show line console user-input-string 1940
show lisp stats-cache 1941
show lldp dcbx interface 1942
show lldp entry 1944
show lldp interface 1946
show lldp neighbors 1948
show lldp neighbors detail 1950
show lldp portid-subtype 1952
show lldp timers 1953
show lldp tlv-select 1954

show lldp traffic 1955
show lldp traffic interface 1956
show locator-led status (pfm) 1957
show locator-led status (satmgr) 1958
show logging 1959
show logging console 1960
show logging info 1961
show logging ip access-list cache 1962
show logging ip access-list status 1964
show logging last 1965
show logging level (licmgr) 1966
show logging level (sksd) 1967
show logging level (syslog) 1968
show logging level aaa 1970
show logging level acllog 1971
show logging level aclmgr 1972
show logging level adjmgr 1973
show logging level arp 1974
show logging level ascii-cfg 1975
show logging level bfd 1976
show logging level bgp 1977
show logging level bloggerd 1978
show logging level bootvar 1979
show logging level callhome 1980
show logging level capability 1981
show logging level cdp 1982
show logging level cert-enroll 1983
show logging level cert_enroll 1984
show logging level cfs 1985
show logging level clis 1986
show logging level clk_mgr 1987
show logging level confcheck 1988
show logging level copp 1989
show logging level core 1990
show logging level dhcp_snoop 1991

show logging level diagnostic device_test 1992
show logging level diagnostic diagclient 1993
show logging level diagnostic diagmgr 1994
show logging level eigrp 1995
show logging level ethdstats 1996
show logging level ethpm 1997
show logging level evmc 1998
show logging level evmed 1999
show logging level evms 2000
show logging level feature-mgr 2001
show logging level fex 2002
show logging level fs-daemon 2003
show logging level glbp 2004
show logging level gpixm 2005
show logging level hsrp 2006
show logging level im 2007
show logging level interface-vlan 2008
show logging level ip igmp 2009
show logging level ip msdp 2010
show logging level ip pim 2011
show logging level ipconf 2012
show logging level ipqos 2013
show logging level ipv6 icmp 2014
show logging level ipv6 pim 2015
show logging level isis 2016
show logging level l2fm 2017
show logging level l2pt 2018
show logging level l3vm 2019
show logging level lacp 2020
show logging level ldap 2021
show logging level lldp 2022
show logging level m2rib 2023
show logging level mfdm 2024
show logging level mfwd 2025
show logging level module 2026

show logging level mpls switching 2027
show logging level mvsh 2028
show logging level netstack 2029
show logging level ntp 2030
show logging level nve 2031
show logging level oim 2032
show logging level onep 2033
show logging level orib 2034
show logging level ospf 2035
show logging level ospfv3 2036
show logging level patch-installer 2037
show logging level pfstat 2038
show logging level pixm 2039
show logging level platform 2040
show logging level pltfm_config 2041
show logging level plugin 2042
show logging level poap 2043
show logging level pong 2044
show logging level port-channel 2045
show logging level port-security 2046
show logging level private-vlan 2047
show logging level radius 2048
show logging level res_mgr 2049
show logging level rip 2050
show logging level routing multicast 2051
show logging level rpm 2052
show logging level rsvp 2053
show logging level sal 2054
show logging level scheduler 2055
show logging level security 2056
show logging level session-mgr 2057
show logging level smm 2058
show logging level snmpd 2059
show logging level spanning-tree 2060
show logging level spm 2061

show logging level sysmgr 2062
show logging level tacacs 2063
show logging level track 2064
show logging level tunnel 2065
show logging level u2rib 2066
show logging level u6rib 2067
show logging level udld 2068
show logging level ufdm 2069
show logging level urib 2070
show logging level vdc_mgr 2071
show logging level virtual-service 2072
show logging level vlan_mgr 2073
show logging level vmm 2074
show logging level vntag 2075
show logging level vpc 2076
show logging level vrrp-cfg 2077
show logging level vrrp-eng 2078
show logging level vshd 2079
show logging level vtp 2080
show logging level xbar 2081
show logging logfile 2082
show logging logfile duration 2083
show logging logfile last-index 2084
show logging logfile start-seqn 2085
show logging logfile start-time 2086
show logging loopback 2088
show logging module 2089
show logging monitor 2090
show logging nvram 2091
show logging onboard 2092
show logging server 2096
show logging source-interface 2097
show logging timestamp 2098

CHAPTER 13 M Show Commands 2099

show mac-list 2101
show mac address-table (l2fm) 2102
show mac address-table (l2fm) 2104
show mac address-table aging-time 2107
show mac address-table count 2108
show mac address-table learning-mode 2110
show mac address-table multicast 2111
show mac address-table notification mac-move 2112
show mac vdc 2113
show mcectest 2114
show mcectest mcec interface 2115
show mgmt-policy 2116
show module 2117
show module bandwidth-fairness 2131
show module fex 2132
show module supported 2134
show module uptime 2135
show monitor 2136
show monitor session 2140
show mpls label range 2147
show mpls label statistics 2148
show mpls switching 2149
show mpls switching clients 2152
show mroute 2154
show mroute flood vlan 2158
show mroute summary 2159
show multicast ftag 2161
show multicast trees 2162
show mvpn bgp 2165
show mvpn mdt encap 2166
show mvpn mdt route 2167
show mvpn snmp mib genericTable 2168
show mvpn snmp mib mvpnBgpMdtUpdateTable 2169
show mvpn snmp mib mvpnMdtDataTable 2171
show mvpn snmp mib mvpnMdtDefaultTable 2173

show mvpn snmp mib mvpnMdtJnRcvTable 2174
show mvpn snmp mib mvpnMdtJnSendTable 2176
show mvpn snmp mib mvpnMrouteMdtTable 2178
show mvpn snmp mib mvpnMvrfNumber 2180
show mvpn snmp mib mvpnNotificationEnable 2181
show mvpn snmp mib mvpnTunnelTable 2182

CHAPTER 14 N Show Commands 2183

show ntp access-groups 2184
show ntp authentication-keys 2185
show ntp authentication-status 2186
show ntp logging-status 2187
show ntp peer-status 2188
show ntp peers 2190
show ntp rts-update 2191
show ntp session status 2192
show ntp source-interface 2193
show ntp source 2194
show ntp statistics 2195
show ntp status 2200
show ntp trusted-keys 2201
show nve interface 2202
show nve peers 2203
show nve vni 2204
show nve vxlan-params 2205
show nxapi 2206

CHAPTER 15 O Show Commands 2207

show object-group 2209
show onep 2211
show onep cli-extensions applications 2213
show onep error 2214
show onep history 2215
show onep statistics 2216
show onep status 2219

show onep trace 2222
show ospfv3 2223
show ospfv3 border-routers 2229
show ospfv3 database 2232
show ospfv3 database database-summary 2236
show ospfv3 database detail 2238
show ospfv3 ha 2245
show ospfv3 interface 2247
show ospfv3 interface brief 2251
show ospfv3 lsa-content-changed-list 2253
show ospfv3 memory 2255
show ospfv3 neighbors 2257
show ospfv3 neighbors detail 2259
show ospfv3 neighbors summary 2263
show ospfv3 policy statistics 2265
show ospfv3 request-list 2267
show ospfv3 retransmission-list 2269
show ospfv3 route 2271
show ospfv3 route summary 2274
show ospfv3 statistics 2277
show ospfv3 summary-address 2282
show ospfv3 traffic 2284
show ospfv3 virtual-links 2288
show ospfv3 virtual-links brief 2294
show otv mroute 2296
show otv route 2298

CHAPTER 16 **P Show Commands** 2301

show password secure-mode 2303
show password strength-check 2304
show pmap-int-br interface br 2305
show pmap-int 2306
show policy-map 2323
show policy-map interface control-plane 2337
show policy-map system 2346

show policy-map type control-plane 2352
show policy-map type network-qos 2360
show port-channel capacity 2362
show port-channel compatibility-parameters 2363
show port-channel database 2364
show port-channel load-balance 2367
show port-channel load-balance forwarding-path 2383
show port-channel rbh-distribution 2386
show port-channel summary 2387
show port-channel traffic 2389
show port-channel usage 2391
show port-security 2392
show port-security address 2394
show port-security address blocked 2396
show port-security address interface 2398
show port-security address nvram 2400
show port-security detail interface 2402
show port-security interface 2404
show port-security multivlan address 2406
show port-security secure address 2407
show port-security state 2408
show port-security traps enable 2409
show privilege 2410
show processes (launcher) 2411
show processes (process) 2412
show processes cpu 2413
show processes cpu history 2415
show processes cpu module 2416
show processes log 2418
show processes log details 2419
show processes log pid 2420
show processes log vdc-all 2421
show processes memory 2422
show processes memory clis 2423
show processes memory shared 2424

show processes vdc 2427
show processes vdc cpu 2428
show processes vdc log 2429
show processes vdc log details 2430
show processes vdc log pid 2431
show processes vdc memory 2432

CHAPTER 17 Q Show Commands 2433
show qos dcbxp incompatibility interface 2434
show qos dcbxp info 2436
show qos shared-policer 2438
show queuing 2441

CHAPTER 18 R Show Commands 2445
show radius-server (radius_tree) 2450
show radius-server (radius_tree) 2451
show radius-server directed-request 2452
show radius-server groups 2453
show radius-server sorted 2455
show radius-server statistics 2457
show redundancy status 2459
show regexp 2461
show resource 2462
show rip 2463
show rip interface 2465
show rip memory 2468
show rip neighbor 2470
show rip route 2473
show rip statistics 2476
show rmon 2478
show role 2480
show role feature-group 2482
show role feature 2483
show rollback log 2484
show rollback status 2485

show route-map 2486
show route-map pbr-statistics 2487
show route 2488
show routing-context 2490
show routing-privilege 2491
show routing clients 2492
show routing hash 2495
show routing hidden-nh 2501
show routing ip ipv4 multicast lisp encap __readonly__ 2503
show routing ipv6 clients 2504
show routing ipv6 hash 2509
show routing ipv6 hidden-nh 2512
show routing ipv6 memory estimate 2514
show routing ipv6 memory statistics 2516
show routing ipv6 nexthop info 2518
show routing ipv6 nhlfe 2519
show routing ipv6 recursive-next-hop 2521
show routing memory estimate 2523
show routing memory statistics 2525
show routing multicast 2527
show routing multicast clients 2530
show routing multicast mdt encapsulation 2533
show routing multicast memory estimate 2535
show routing nhlfe 2538
show routing recursive-next-hop 2540
show routing unresolved-next-hop 2542
show running-config 2544
show running-config aaa 2545
show running-config acllog 2546
show running-config aclmgr (aclmgr) 2547
show running-config aclmgr (aclmgr) 2548
show running-config adjmgr 2549
show running-config all 2550
show running-config arp 2551
show running-config bfd 2552

show running-config bgp 2553
show running-config bloggerd 2554
show running-config callhome 2555
show running-config cdp 2556
show running-config cert-enroll 2557
show running-config cfs 2558
show running-config clock_manager 2559
show running-config copp 2560
show running-config dhcp 2561
show running-config diagnostic 2562
show running-config diff 2563
show running-config eem 2564
show running-config eigrp 2565
show running-config eltm 2566
show running-config exclude 2567
show running-config exclude fabricpath 2571
show running-config exclude fex 2572
show running-config explicit 2573
show running-config fabricpath 2574
show running-config fabricpath topology 2575
show running-config fex 2576
show running-config glbp 2577
show running-config hsrp 2578
show running-config icmpv6 2579
show running-config igmp 2580
show running-config interface (clic) 2581
show running-config interface (clic) 2582
show running-config interface defaults 2583
show running-config interface explicit 2584
show running-config ip 2585
show running-config ipqos (qosmgr) 2586
show running-config ipqos (qosmgr) 2587
show running-config ipv6 2588
show running-config isis 2589
show running-config l2pt 2590

show running-config l3vm 2591
show running-config ldap 2592
show running-config license 2593
show running-config lldp 2594
show running-config monitor 2595
show running-config msdp 2596
show running-config ntp 2597
show running-config nv overlay 2598
show running-config ospf 2599
show running-config ospfv3 2600
show running-config pim 2601
show running-config pim6 2602
show running-config port-security 2603
show running-config radius 2604
show running-config res_mgr 2605
show running-config rip 2606
show running-config routing multicast 2607
show running-config rpm 2608
show running-config rsvp 2609
show running-config section 2610
show running-config security 2611
show running-config snmp 2612
show running-config spanning-tree 2613
show running-config tacacs+ 2614
show running-config track 2615
show running-config udld 2616
show running-config vdc-all 2617
show running-config vdc 2618
show running-config virtual-service 2619
show running-config vlan (clis) 2620
show running-config vlan (clis) 2621
show running-config vlan (vlan_mgr_cli) 2622
show running-config vlan_mgr 2623
show running-config vpc 2624
show running-config vrf 2625

show running-config vrf default 2626
show running-config vrrp 2627
show running-config vshd 2628
show running-config vtp 2629

CHAPTER 19 S Show Commands 2631
show scheduler config 2636
show scheduler job 2638
show scheduler logfile 2639
show scheduler schedule 2640
show snmp 2642
show snmp community 2647
show snmp context 2648
show snmp engineID 2649
show snmp group 2650
show snmp host 2652
show snmp mib igmpCacheTable 2654
show snmp mib igmpInterfaceTable 2656
show snmp mib pimCandidateRPTable 2658
show snmp mib pimComponentTable 2659
show snmp mib pimInterfaceTable 2660
show snmp mib pimIpMRouteNextHopTable 2662
show snmp mib pimIpMRouteTable 2664
show snmp mib pimJoinPruneInterval 2666
show snmp mib pimNeighborTable 2667
show snmp mib pimRPSetTable 2668
show snmp pss 2670
show snmp roledebug 2671
show snmp sessions 2672
show snmp snmpv3stats 2673
show snmp source-interface 2674
show snmp trap 2675
show snmp user 2676
show sockets buffers 2678
show sockets client 2679

show sockets connection 2688
show sockets keychain-dump 2691
show sockets performance 2692
show sockets statistics 2693
show sockets tcp keychain binding 2697
show spanning-tree (stp) 2698
show spanning-tree (stp) 2699
show spanning-tree interface (stp) 2709
show spanning-tree interface (stp) 2710
show spanning-tree mst 2717
show spanning-tree mst configuration __readonly__ 2728
show spanning-tree mst configuration digest __readonly__ 2729
show spanning-tree mst detail 2730
show spanning-tree mst interface 2731
show spanning-tree mst interface detail 2738
show spanning-tree pathcost method 2739
show spanning-tree summary 2740
show spanning-tree summary totals 2746
show spanning-tree vlan (stp) 2751
show spanning-tree vlan (stp) 2752
show spanning-tree vlan (stp) 2753
show spanning-tree vlan (stp) 2754
show spanning-tree vlan (stp) 2755
show sprom 2756
show sprom fex 2765
show sprom fex all 2766
show ssh key 2767
show ssh server 2768
show startup-config 2769
show startup-config aaa 2770
show startup-config acllog 2771
show startup-config aclmgr 2772
show startup-config adjmgr 2773
show startup-config arp 2774
show startup-config bfd 2775

show startup-config bgp 2776
show startup-config bloggerd 2777
show startup-config callhome 2778
show startup-config cdp 2779
show startup-config cert-enroll 2780
show startup-config cfs 2781
show startup-config copp 2782
show startup-config dhcp 2783
show startup-config diagnostic 2784
show startup-config eem 2785
show startup-config eigrp 2786
show startup-config eltm 2787
show startup-config exclude 2788
show startup-config fabricpath 2792
show startup-config fabricpath topology 2793
show startup-config fex 2794
show startup-config glbp 2795
show startup-config hsrp 2796
show startup-config icmpv6 2797
show startup-config igmp 2798
show startup-config interface (clic) 2799
show startup-config interface (clic) 2800
show startup-config ip 2801
show startup-config ipqos 2802
show startup-config ipv6 2803
show startup-config isis 2804
show startup-config l2pt 2805
show startup-config l3vm 2806
show startup-config ldap 2807
show startup-config license 2808
show startup-config lldp 2809
show startup-config log 2810
show startup-config monitor 2811
show startup-config msdp 2812
show startup-config ntp 2813

show startup-config nv overlay 2814
show startup-config ospf 2815
show startup-config ospfv3 2816
show startup-config pim 2817
show startup-config pim6 2818
show startup-config port-security 2819
show startup-config radius 2820
show startup-config rip 2821
show startup-config routing multicast 2822
show startup-config rpm 2823
show startup-config rsvp 2824
show startup-config security 2825
show startup-config snmp 2826
show startup-config tacacs+ 2827
show startup-config track 2828
show startup-config udld 2829
show startup-config vdc-all 2830
show startup-config vdc 2831
show startup-config virtual-service 2832
show startup-config vlan (clis) 2833
show startup-config vlan (clis) 2834
show startup-config vpc 2835
show startup-config vrf 2836
show startup-config vrf default 2837
show startup-config vrrp 2838
show startup-config vshd 2839
show startup-config vtp 2840
show summary 2841
show system auto-collect tech-support 2842
show system cores 2843
show system error-id 2844
show system exception-info 2845
show system inband queuing 2846
show system kgdb 2848
show system pss shrink status 2849

show system redundancy ha status 2851
show system redundancy status 2852
show system reset-reason (lcmcli) 2854
show system reset-reason (lcmcli) 2855
show system reset-reason fex 2856
show system reset-reason module 2857
show system resources (process) 2858
show system resources (process) 2859
show system resources module 2861
show system resources module all 2862
show system routing mode 2863
show system srg 2864
show system standby manual-boot 2865
show system switchover impact 2866
show system uptime 2867
show system verify bios 2869
show system vlan reserved 2870

CHAPTER 20 T Show Commands 2871

show table-map 2876
show tacacs-server (tacacs_dynamic_tree) 2879
show tacacs-server (tacacs_dynamic_tree) 2880
show tacacs-server directed-request 2881
show tacacs-server groups 2882
show tacacs-server sorted 2884
show tacacs-server statistics 2886
show tech-support 2889
show tech-support aaa 2890
show tech-support aclmgr 2891
show tech-support aclqos 2892
show tech-support aclqos compressed 2893
show tech-support adjmgr 2894
show tech-support all-binary 2895
show tech-support all 2896
show tech-support all binary 2897

show tech-support arp 2898
show tech-support ascii-cfg 2899
show tech-support bfd 2900
show tech-support bgp 2901
show tech-support biosd 2902
show tech-support bloggerd-all 2903
show tech-support bloggerd 2904
show tech-support bootvar 2905
show tech-support brief 2906
show tech-support callhome 2907
show tech-support cdp 2908
show tech-support cert-enroll 2909
show tech-support cfs 2910
show tech-support cli 2911
show tech-support clis 2912
show tech-support clock_manager 2913
show tech-support commands 2914
show tech-support copp 2915
show tech-support details 2916
show tech-support dhcp 2917
show tech-support eem 2918
show tech-support eigrp 2919
show tech-support eltm 2920
show tech-support ethpm 2921
show tech-support fabricpath topology 2922
show tech-support fips 2923
show tech-support forwarding l2 unicast 2924
show tech-support forwarding l3 unicast 2925
show tech-support forwarding l3 unicast detail 2926
show tech-support forwarding l3 unicast detail vdc-all 2927
show tech-support forwarding l3 unicast vdc-all 2928
show tech-support forwarding multicast 2929
show tech-support glbp 2930
show tech-support glbp brief 2931
show tech-support gold 2932

show tech-support gpixm 2933
show tech-support ha 2934
show tech-support ha standby 2935
show tech-support hsrp 2936
show tech-support hsrp brief 2937
show tech-support icmpv6 2938
show tech-support im 2939
show tech-support inband counters 2940
show tech-support include-time 2941
show tech-support interface-vlan 2942
show tech-support ip 2943
show tech-support ip igmp 2944
show tech-support ip igmp snooping 2945
show tech-support ip msdp 2946
show tech-support ip pim 2947
show tech-support ip rsvp 2948
show tech-support ipqos 2949
show tech-support ipv6 2950
show tech-support ipv6 pim 2951
show tech-support isis 2952
show tech-support issu 2953
show tech-support l2 2954
show tech-support l2fm 2955
show tech-support l2fm clients 2956
show tech-support l2fm detail 2957
show tech-support l2fm l2dbg (syscli) 2958
show tech-support l2fm l2dbg (syscli) 2959
show tech-support l2pt 2960
show tech-support l3vm 2961
show tech-support l3vpn 2962
show tech-support lacp 2963
show tech-support ldap 2964
show tech-support license 2965
show tech-support lldp 2966
show tech-support logging 2967

show tech-support mfwd 2968
show tech-support module 2969
show tech-support module all 2970
show tech-support monitor 2971
show tech-support monitor erspan 2972
show tech-support monitorc-all 2973
show tech-support multicast 2974
show tech-support mvpn 2975
show tech-support netstack 2976
show tech-support netstack detail 2977
show tech-support npacl 2978
show tech-support ntp 2979
show tech-support nve 2980
show tech-support oim 2981
show tech-support onep 2982
show tech-support ospf 2983
show tech-support ospfv3 2984
show tech-support page 2985
show tech-support patch 2986
show tech-support pfstat 2987
show tech-support pixm-all 2988
show tech-support pixm 2989
show tech-support pixmc-all 2990
show tech-support pktmgr 2991
show tech-support platform 2992
show tech-support pltfm-config 2993
show tech-support port-channel 2994
show tech-support port-client-all 2995
show tech-support port 2996
show tech-support private-vlan 2997
show tech-support radius 2998
show tech-support rip 2999
show tech-support routing ip unicast 3000
show tech-support routing ipv6 3001
show tech-support routing multicast 3002

show tech-support rpm 3003
show tech-support sal 3004
show tech-support security 3005
show tech-support session-mgr 3006
show tech-support sksd 3007
show tech-support smm 3008
show tech-support snmp 3009
show tech-support sockets 3010
show tech-support spm 3011
show tech-support statsclient 3012
show tech-support stp 3013
show tech-support sup-filesys 3014
show tech-support sysmgr 3015
show tech-support tacacs+ 3016
show tech-support track 3017
show tech-support udld 3018
show tech-support usd-all 3019
show tech-support vdc 3020
show tech-support virtual-service 3021
show tech-support vlan 3022
show tech-support vpc 3023
show tech-support vrrp 3024
show tech-support vrrp brief 3025
show tech-support vxlan 3026
show tech-support xbar 3027
show tech-support xml 3028
show telnet server 3029
show terminal 3030
show time-range 3031
show track 3035
show track brief 3039
show tunnel iftable 3042
show tunnel inetconfigtable 3045

CHAPTER 21 U Show Commands 3051

show udld 3052
show udld global 3057
show udld neighbors 3058
show ulib process 3060
show user-account 3061
show username keypair 3062
show users 3063

CHAPTER 22 V Show Commands 3065
show vdc 3068
show vdc current-vdc 3070
show vdc fcoe-vlan-range 3071
show vdc resource (res_mgr) 3072
show vdc resource (res_mgr) 3073
show vdc resource template 3075
show version 3076
show version compatibility 3078
show version fex 3079
show version image 3080
show version module 3081
show version module epld 3082
show virtual-service 3083
show virtual-service storage pool list 3087
show virtual-service tech-support 3088
show virtual-service utilization name 3089
show virtual-service version 3092
show vlan-mgr errors 3093
show vlan-mgr event-history 3094
show vlan 3095
show vlan access-list 3098
show vlan access-map 3108
show vlan all-ports 3110
show vlan counters 3112
show vlan dot1Q tag native 3114
show vlan filter 3115

show vlan id 3116
show vlan id counters 3119
show vlan id vn-segment 3121
show vlan mib private-vlan type 3122
show vlan name 3124
show vlan private-vlan 3127
show vlan private-vlan interface host 3128
show vlan private-vlan interface mapping 3129
show vlan private-vlan interface mode 3130
show vlan private-vlan interface trunk 3131
show vlan private-vlan mapping 3133
show vlan private-vlan type 3134
show vlan reserved 3136
show vlan xbrief 3138
show vlan xsummary 3140
show vpc (mcecm) 3141
show vpc (mcecm) 3146
show vpc consistency-parameters 3160
show vpc consistency-parameters vlans 3161
show vpc orphan-ports 3165
show vpc peer-keepalive 3166
show vpc role 3169
show vpc statistics 3172
show vpc statistics peer-keepalive 3173
show vrf 3174
show vrf interface 3176
show vrf topology 3177
show vrrp 3178
show vrrp bfd-sessions 3182
show vtp counters 3184
show vtp datafile 3186
show vtp domain id 3187
show vtp interface 3189
show vtp mibstats 3190
show vtp password 3191

show vtp status 3192

show vtp trunk interface 3195

show vtp vlan 3197

CHAPTER 23 X Show Commands 3201

show xml server logging configuration 3202

show xml server status 3203

Preface

This preface includes the following sections:

- Audience, page xlix
- Documentation Conventions, page l
- Documentation Feedback, page li
- Obtaining Documentation and Submitting a Service Request, page li

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
bold	Bold text indicates the commands and keywords that you enter literally as shown.
Italic	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.
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
`screen font`	Terminal sessions and information the switch displays are in screen font.
`boldface screen font`	Information you must enter is in boldface screen font.
italic screen font	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.

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This document contains some commands that are not supported in Cisco NX-OS Release 6.1(2)I2(2). For example, this release does not support FabricPath, FCoE, FEX, GLBP, MPLS, OTV, and PIM6. Commands related to these features are not currently supported and are disabled in the software.

A Show Commands

- show (eigrp), page 4
- show aaa accounting, page 9
- show aaa authentication, page 10
- show aaa authentication login, page 11
- show aaa authentication login ascii-authentication, page 12
- show aaa authentication login error-enable, page 13
- show aaa authentication login password-aging, page 14
- show aaa authorization, page 15
- show aaa groups, page 16
- show aaa user default-role, page 17
- show access-lists, page 18
- show accounting log, page 28
- show accounting log all, page 30
- show accounting log last-index, page 31
- show accounting log nvram, page 32
- show accounting log nvram last-index, page 34
- show accounting log nvram start-seqnum, page 35
- show accounting log start-seqnum, page 36
- show acl status, page 37
- show arp access-lists, page 38

show (eigrp)

show {**ip eigrp** [*eigrp-ptag*] **neighbors** [**detail**| **state**] {[*interface*]| [*address*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]}| **ipv6 eigrp** [*eigrp-ptag*] **neighbors** [**detail**| **state**] {[*interface*]| [*ipv6-addr*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]}} [**__readonly__ TABLE_asn** *asn* **TABLE_vrf** *vrf* [**TABLE_peer** *peer_handle peer_ipaddr peer_ipv6addr peer_ifname peer_holdtime peer_uptime peer_srtt peer_rto peer_xmitq_count peer_last_seqno peer_static peer_nsf_restart_time peer_last_startup_serno peer_ios_major_ver peer_ios_minor_ver peer_eigrp_major_rev peer_eigrp_minor_rev peer_retrans_count peer_retry_count peer_wait_for_init peer_wait_for_init_ack peer_reinit_start_time peer_prefix_count peer_info_stubbed peer_info_receive_only* [*peer_info_allow_connected peer_info_allow_statics peer_info_allow_summaries peer_info_allow_redist peer_info_allow_leaking*] [*peer_state_cr_mode peer_state_need_init peer_state_need_init_ack peer_state_going_down peer_state_coming_up peer_state_peer_deleted peer_state_nsf_in_progress peer_state_need_eot peer_state_use_nsf_startup_mode peer_state_await_nsf_convergence peer_state_initiated_gr peer_state_cr_sequence peer_state_rcv_probe_sequence peer_state_send_probe_sequence*] *peer_suppress_queries* [**TABLE_xmitq_pkts** *pkt_qtype pkt_index pkt_opcode pkt_ack_seqno pkt_start_seqno pkt_end_seqno pkt_len pkt_time_sent pkt_init_flag pkt_sequenced*]] [**TABLE_suspended_peer** *susp_peer_ipaddr susp_peer_ipv6addr susp_peer_ifname susp_peer_restart_reqd susp_peer_restart_time*]]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
neighbors	IP-EIGRP neighbors
detail	Show detailed peer information
state	Show detailed peer and state information
interface	Type: interface Interface
address	Type: ipaddr IP-EIGRP neighbor address
ipv6-addr	Type: ipv6addr IPv6 neighbor address
__readonly__	
TABLE_asn	
asn	Type: uinteger
TABLE_vrf	
vrf	Type: string
TABLE_peer	
peer_handle	Type: uinteger
peer_ipaddr	Type: ipaddr
peer_ipv6addr	Type: ipv6addr
peer_ifname	Type: interface
peer_holdtime	Type: uinteger
peer_uptime	Type: duration
peer_srtt	Type: uinteger

peer_rto	Type: uinteger
peer_xmitq_count	Type: uinteger
peer_last_seqno	Type: uinteger
peer_static	Type: bool
peer_nsf_restart_time	Type: duration
peer_last_startup_serno	Type: uinteger
peer_ios_major_ver	Type: uinteger
peer_ios_minor_ver	Type: uinteger
peer_eigrp_major_rev	Type: uinteger
peer_eigrp_minor_rev	Type: uinteger
peer_retrans_count	Type: uinteger
peer_retry_count	Type: uinteger
peer_wait_for_init	Type: bool
peer_wait_for_init_ack	Type: bool
peer_reinit_start_time	Type: duration
peer_prefix_count	Type: uinteger
peer_info_stubbed	Type: bool
peer_info_receive_only	Type: bool
peer_info_allow_connected	Type: bool
peer_info_allow_statics	Type: bool
peer_info_allow_summaries	Type: bool
peer_info_allow_redist	Type: bool
peer_info_allow_leaking	Type: bool
peer_state_cr_mode	Type: bool
peer_state_need_init	Type: bool
peer_state_need_init_ack	Type: bool

peer_state_going_down	Type: bool
peer_state_coming_up	Type: bool
peer_state_peer_deleted	Type: bool
peer_state_nsf_in_progress	Type: bool
peer_state_need_eot	Type: bool
peer_state_use_nsf_startup_mode	Type: bool
peer_state_await_nsf_convergence	Type: bool
peer_state_initiated_gr	Type: bool
peer_state_cr_sequence	Type: uinteger
peer_state_rcv_probe_sequence	Type: uinteger
peer_state_send_probe_sequence	Type: uinteger
peer_suppress_queries	Type: bool
TABLE_xmitq_pkts	
pkt_qtype	Type: uinteger
pkt_index	Type: uinteger
pkt_opcode	**UPDATE value: 1** **REQUEST value: 2** **QUERY value: 3** **REPLY value: 4** **HELLO value: 5** **IPXSAP value: 6** **PROBE value: 7** **ACK value: 8** **STUB value: 9** **SIAQUERY value: 10** **SIAREPLY value: 11**

pkt_ack_seqno	Type: uinteger
pkt_start_seqno	Type: uinteger
pkt_end_seqno	Type: uinteger
pkt_len	Type: uinteger
pkt_time_sent	Type: duration
pkt_init_flag	Type: bool
pkt_sequenced	Type: bool
TABLE_suspended_peer	
susp_peer_ipaddr	Type: ipaddr
susp_peer_ipv6addr	Type: ipv6addr
susp_peer_ifname	Type: interface
susp_peer_restart_reqd	Type: bool
susp_peer_restart_time	Type: uinteger

Command Modes

- /exec

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
__readonly__	
TABLE_acctMethods	
service	Type: string service type
methods	Type: string Accounting methods configured for the application

Command Modes

- /exec

show aaa authentication

show aaa authentication [**__readonly__** [**TABLE_AuthenMethods** *service method*]]

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
__readonly__	
TABLE_AuthenMethods	
service	Type: string Service for which authentication is needed
method	Type: string Authentication method used for the service

Command Modes

- /exec

show aaa authentication login

show aaa authentication login {**mschap**| **mschapv2**| **chap**}

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

Command Modes

- /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
__readonly__	
ascii_authen_status	ascii authentication status **disabled value: 0** **enabled value: 1**

Command Modes

- /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__	
status	login error-enable enabled or disabled **disabled value: 0** **enabled value: 1**

Command Modes

- /exec

show aaa authentication login password-aging

show aaa authentication login password-aging [**__readonly__** *passwordAging_status*]

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login error message configuration
password-aging	Show password-aging enable configuration
__readonly__	
passwordAging_status	login password-aging **disabled value: 0** **enabled value: 1**

Command Modes

- /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	Show all(include defaults configurations) authorization info
__readonly__	
pki_ssh_cert_author	Type: string
pki_ssh_pubkey_author	Type: string
TABLE_cmd_methods	table containing command authorization methods
appl_subtype	Type: string
cmd_type	Type: string
methods	Type: string
TABLE_app_methods	table containing application authorization methods
appl	Type: string
methods	Type: string

Command Modes

- /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__	
TABLE_groups	Table showing aaa groups
group	Type: string Name of the group

Command Modes

- /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__	
default_role_status	user default role status
udr_status	Status of user default role **disabled value: 0** **enabled value: 1**

Command Modes

- /exec

show access-lists

show [*ip_ipv6_mac*] **access-lists** [*name*] [**capture session** *capture_session*] [*expanded*| *summary*| *private*| *brief*] [**__readonly__ TABLE_ip_ipv6_mac** *op_ip_ipv6_mac 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*]] [*log*] [*capture_session*] [*fragments*] [*plen_op plen1* [*plen2*]] [*urg*] [*ack*] [*psh*] [*rst*] [*syn*] [*fin*] [*established*] [*flow_label*] [*timerange*] [*eth_proto*| *eth_proto_str*] [*vlan*] [*cos*] [*match_count*]| *remark*}]]

Syntax Description

show	Show running system information
name	Type: string length: 64 List name
ip_ipv6_mac	IP/IPv6/MAC **ip value: 9** Display IP information **ipv6 value: 10** Display IPv6 information **mac value: 11** MAC configuration commands
capture	capture *Not available in this release.*
session	session
capture_session	Type: uinteger min: 1 max: 48 session id

op_ip_ipv6_mac	IP/IPv6/MAC **ip value: 9** Display IP information **ipv6 value: 10** Display IPv6 information **mac value: 11** MAC configuration commands
access-lists	List access lists
acl_name	Type: string length: 64 List name
__readonly__	
TABLE_ip_ipv6_mac	
frag_opt_permit_deny	frag_op_type **deny-all value: 3** Drop all fragments **permit-all value: 2** Alllow all fragments
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
permitdeny	Permit/deny **permit value: 2** Specify packets to forward **deny value: 3** Specify packets to reject
proto	Type: uinteger min: 0 max: 255 A protocol number
TABLE_seqno	

proto_str	Type: string Protocol name
ip	IP **ip value: 1** IP Protocol
ipv6	IPV6 **ipv6 value: 1** IPv6 Protocol
src_any	SRCAny **any value: 1** Any IP address
dest_any	DESTAny **any value: 1** Any IP address
src_ip_prefix	Type: ipprefix Source IP prefix
src_ip_addr	Type: ipaddr Source IP address
src_ip_mask	Type: ipaddr Source IP mask
src_ipv6_prefix	Type: ipv6prefix Source IPv6 prefix
src_ipv6_addr	Type: ipv6addr Source IP address
src_ipv6_mask	Type: ipv6addr Source IP mask
mac_src	Type: ethernet Source MAC address
mac_src_wild	Type: ethernet Source MAC mask

dest_ip_prefix	Type: ipprefix Destination IP prefix
dest_ip_addr	Type: ipaddr Destination IP address
dest_ip_mask	Type: ipaddr Destination IP mask
dest_ipv6_prefix	Type: ipv6prefix Destination IPv6 prefix
dest_ipv6_addr	Type: ipv6addr Destination IP address
dest_ipv6_mask	Type: ipv6addr Destination IP mask
mac_dest	Type: ethernet Destination MAC address
mac_dest_wild	Type: ethernet Destination MAC mask
src_port_op	Source Port operator **lt value: 4** Match only packets with a lower port number **gt value: 5** Match only packets with a greater port number **eq value: 6** Match only packets on a given port number **neq value: 7** Match only packets not on a given port number **range value: 8** Match only packets in the range of port numbers

dest_port_op	Destination Port operator **lt value: 4** Match only packets with a lower port number **gt value: 5** Match only packets with a greater port number **eq value: 6** Match only packets on a given port number **neq value: 7** Match only packets not on a given port number **range value: 8** Match only packets in the range of port numbers
src_port1_str	Type: string Source port name
src_port1_num	Type: uinteger Source port number
src_port2_str	Type: string Source port name
src_port2_num	Type: uinteger Source port number
dest_port1_str	Type: string Destination port name
dest_port1_num	Type: uinteger Destination port number
dest_port2_str	Type: string Destination port name
dest_port2_num	Type: uinteger Destination port number
icmp_type	Type: uinteger ICMP type
icmp_code	Type: uinteger ICMP code

icmp_str	Type: string ICMP message
icmpv6_type	Type: uinteger ICMP type
icmpv6_code	Type: uinteger ICMP code
icmpv6_str	Type: string ICMP message
igmp_type	Type: uinteger IGMP type
igmp_type_str	Type: string IGMP type String
precedence	Type: uinteger precedence
precedence_str	Type: string precedence string
tos	Type: uinteger tos
tos_str	Type: string tos string
dscp	Type: uinteger dscp
dscp_str	Type: string dscp string
capture_session	Type: uinteger min: 1 max: 48 capture session
global_capture_session	Type: uinteger min: 1 max: 48 capture session

log	Log **enable value: 1** Log the packet **disable value: 2** Packet loging disabled
fragments	Fragments **enable value: 1** Match on fragments **disable value: 2** No fragment match
urg	URG **enable value: 1** TCP urg flag set **disable value: 2** TCP urg flag clear
ack	ACK **enable value: 1** TCP ack flag set **disable value: 2** TCP ack flag clear
psh	PSH **enable value: 1** TCP psh flag set **disable value: 2** TCP psh flag clear
rst	RST **enable value: 1** TCP rst flag set **disable value: 2** TCP rst flag clear

syn	SYN **enable value: 1** TCP syn flag set **disable value: 2** TCP syn flag clear
fin	FIN **enable value: 1** TCP fin flag set **disable value: 2** TCP fin flag clear
established	ESTABLISHED **enable value: 1** TCP established connection **disable value: 2** TCP not established connection
flow_label	Type: uinteger IPv6 flow label
timerange	Type: string Time-range
eth_proto	Type: hex MAC protocol number
eth_proto_str	Type: string MAC protocol name
vlan	Type: integer min: 0 max: 4095 VLAN number
cos	Type: integer min: 0 max: 7 CoS value
match_count	Type: longlong Number of packets matching the ACL

remark	Type: string Remark String
statistics	STATISTICS **enable value: 1** Statistics enabled for ACL **disable value: 2** Statistics not enabled for ACL
src_addrgrp	Type: string Source address group
dest_addrgrp	Type: string Destination address group
src_portgrp	Type: string Source port group
dest_portgrp	Type: string Destination port group
plen_op	Source Port operator **lt value: 4** Match only packets with a lower packet length **gt value: 5** Match only packets with a greater packet length **eq value: 6** Match only packets on a given packet length **neq value: 7** Match only packets not on a given packet length **range value: 8** Match only packets in the range of packet lengths
plen1	Type: uinteger Packet length minimum
plen2	Type: uinteger packet length maximum

expanded	EXPANDED **expanded value: 1** Expand groups
summary	SUMMARY **summary value: 1** access list summary
private	PRIVATE **dynamic value: 1** Dynamic ACLs
brief	BRIEF **brief value: 1** print only aclnames with given capture session

Command Modes

- /exec

show accounting log

show accounting log [*i0*| **start-time** *SYYYY SMonth SDate STime* [**end-time** *EYYYY EMonth EDate ETime*]]

Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
i0	Type: integer min: 0 max: 500000 Log Size(in bytes)
start-time	Show messages from a given start-time
SYYYY	Type: integer min: 1970 max: 2030 Enter year in YYYY format
SMonth	Type: string length: 3 Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
SDate	Type: integer min: 1 max: 31 Enter day of month in dd format
STime	Type: string length: 8 Enter hour, minutes, seconds as HH:MM:SS
end-time	Show messages from a given end-time
EYYYY	Type: integer min: 1970 max: 2030 Enter year in YYYY format
EMonth	Type: string length: 3 Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec

EDate	Type: integer min: 1 max: 31 Enter day of month in dd format
ETime	Type: string length: 8 Enter hour, minutes, seconds as HH:MM:SS

Command Modes

- /exec

show accounting log all

show accounting log 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)

Command Modes

- /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__	
last_index	Type: integer accounting log last index

Command Modes

- /exec

show accounting log nvram

show accounting log nvram [*i0*| **start-time** *SYYYY SMonth SDate STime* [**end-time** *EYYYY EMonth EDate ETime*]]

Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
nvram	present in nvram
i0	Type: integer min: 0 max: 500000 Log Size(in bytes)
start-time	Show messages from a given start-time
SYYYY	Type: integer min: 1970 max: 2030 Enter year in YYYY format
SMonth	Type: string length: 3 Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
SDate	Type: integer min: 1 max: 31 Enter day of month in dd format
STime	Type: string length: 8 Enter hour, minutes, seconds as HH:MM:SS
end-time	Show messages from a given end-time
EYYYY	Type: integer min: 1970 max: 2030 Enter year in YYYY format

EMonth	Type: string length: 3 Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
EDate	Type: integer min: 1 max: 31 Enter day of month in dd format
ETime	Type: string length: 8 Enter hour, minutes, seconds as HH:MM:SS

Command Modes

- /exec

show accounting log nvram last-index

show accounting log nvram 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

Command Modes

- /exec

show accounting log nvram start-seqnum

show accounting log nvram start-seqnum *SSEQNUM* [**end-seqnum** *ESEQNUM*]

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	Show messages ending with a given sequence number
SSEQNUM	Type: integer min: 1 max: 2000000000 Enter Starting Sequence Number
ESEQNUM	Type: integer min: 1 max: 2000000000 Enter Starting Sequence Number

Command Modes

- /exec

show accounting log start-seqnum

show accounting log start-seqnum *SSEQNUM* [**end-seqnum** *ESEQNUM*]

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	Show messages ending with a given sequence number
SSEQNUM	Type: integer min: 1 max: 2000000000 Enter Starting Sequence Number
ESEQNUM	Type: integer min: 1 max: 2000000000 Enter Starting Sequence Number

Command Modes

- /exec

show acl status

show acl status [**__readonly__** [*status_log_string*]]

Syntax Description

show	Show running system information
acl	Show information about acl
status	Shows the status of last acl operation
__readonly__	
status_log_string	Type: string ppf entry string

Command Modes

- /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 *Not available in this release.*
access-lists	List access lists
name	Type: string length: 64 List name
__readonly__	
arp_name	Type: string Name of the ARP ACL
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
permitdeny	Permit/deny **permit value: 2** Specify packets to forward **deny value: 3** Specify packets to reject
ip	Any IP protocol
TABLE_arp	
TABLE_seqno	
reqresp	ARP_Request **request value: 1** **response value: 2**

sender_ip_any	Any **any value: 1** Any IP address
sender_host	Host **host value: 1** host IP address
sender_ip	Type: ipaddr IP address <a.b.c.d>
sender_net_ip	Type: ipaddr IP address <a.b.c.d>
sender_ip_mask	Type: ipaddr IP mask <a.b.c.d>
target_ip_any	Any **any value: 1** Any IP address
target_host	Host **host value: 1** host IP address
target_ip	Type: ipaddr IP address <a.b.c.d>
target_net_ip	Type: ipaddr IP address <a.b.c.d>
target_ip_mask	Type: ipaddr IP mask <a.b.c.d>
mac	MAC configuration commands
sender_mac_any	Any **any value: 1** Any MAC address

sender_mac_host	Host **host value: 1** host MAC address
sender_mac	Type: ethernet MAC address EEEE.EEEE.EEEE
sender_net_mac	Type: ethernet MAC address EEEE.EEEE.EEEE
sender_mac_mask	Type: ethernet MAC mask EEEE.EEEE.EEEE
target_mac_any	Any **any value: 1** Any MAC address
target_mac_host	Host **host value: 1** host MAC address
target_mac	Type: ethernet MAC address EEEE.EEEE.EEEE
target_net_mac	Type: ethernet MAC address EEEE.EEEE.EEEE
target_mac_mask	Type: ethernet MAC mask EEEE.EEEE.EEEE
remark	Type: string Remark String
arp_log	Log **log value: 1**
capture	Enable packet capture on this filter for session *Not available in this release.*
session	Session ID <1-48> for this session

session-id	Type: uinteger min: 1 max: 48 Session ID <1-48> for this session

Command Modes

- /exec

B Show Commands

- show background, page 45
- show banner motd, page 46
- show bash-shell, page 47
- show bfd-app session status, page 48
- show bfd addrmap, page 50
- show bfd discrmap, page 51
- show bfd intfipmap, page 52
- show bfd neighbors, page 53
- show bfd scalar, page 59
- show bfd session, page 60
- show bgp (bgp), page 68
- show bgp (bgp), page 74
- show bgp (bgp), page 78
- show bgp (bgp), page 79
- show bgp (bgp), page 83
- show bgp (bgp), page 86
- show bgp (bgp), page 89
- show bgp (bgp), page 90
- show bgp community, page 93
- show bgp convergence, page 97
- show bgp convergence private, page 99
- show bgp dampening, page 100
- show bgp default-info, page 104
- show bgp extcommunity, page 105

- show bgp l3vpn, page 109
- show bgp neighbors (bgp), page 113
- show bgp neighbors (bgp), page 116
- show bgp neighbors commands, page 125
- show bgp neighbors flap-statistics, page 127
- show bgp neighbors paths, page 129
- show bgp paths, page 131
- show bgp peer-template, page 132
- show bgp prefix-list, page 135
- show bgp private, page 138
- show bgp private attr, page 140
- show bgp private damp, page 141
- show bgp process, page 142
- show bgp received-paths, page 146
- show bgp regexp, page 149
- show bgp self-originated, page 153
- show bgp sessions, page 156
- show bgp statistics, page 158
- show bgp summary (bgp), page 159
- show bgp summary (bgp), page 165
- show boot, page 171
- show boot auto-copy, page 172
- show boot auto-copy list, page 173
- show boot current, page 174
- show boot module, page 175
- show boot sup-1, page 176
- show boot sup-2, page 177
- show boot variables, page 178
- show bootmode, page 179
- show buffers ip, page 180

show background

show background

Syntax Description

show	Show running system information
background	show background processes (started with 'source background <file>' command)

Command Modes

- /exec

show banner motd

show banner motd [**__readonly__ banner_msg** *b_msg*]

Syntax Description

show	Show running system information
banner	Show current motd banner message
motd	Show current motd banner message
__readonly__	
banner_msg	The banner message
b_msg	Type: string The banner message

Command Modes

- /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
__readonly__	
operation_status	Bash shell status
o_status	operational status of bash shell **disabled value: 0** **enabled value: 1**

Command Modes

- /exec

show bfd-app session status

show bfd-app session status {**src-ip** {*src_ip* **dest-ip** *dest_ip*| *src_ipv6* **dest-ip** *dest_ipv6*} {**iod** *iod_id*| **intf** *intf_id*}| *all*}

Syntax Description

show	Show running system information
bfd-app	BFD application commands
session	session operation
src-ip	Source ip
src_ip	Type: ipaddr Source ip value
src_ipv6	Type: ipv6addr Source ipv6 value
dest-ip	Destination ip
dest_ip	Type: ipaddr Destination ip value
dest_ipv6	Type: ipv6addr Destination ipv6 value
iod	interface iod
iod_id	Type: hex Interface iod in hex
intf	interface
intf_id	Type: interface Interface Id
status	status of sessions
all	All sessions **all value: 1** Get session status for all sessions

Command Modes

- /exec

show bfd addrmap

show bfd addrmap [**application** *appid* **discriminator** *discr* **address-type** *addrtype* **address** *addr*] [**__readonly__ TABLE_bfdSessMapTable** *ciscoBfdSessApplicationId ciscoBfdSessDiscriminator ciscoBfdSessAddrType ciscoBfdSessAddr ciscoBfdSessMapBfdIndex*]

Syntax Description

show	Show running system information
bfd	BFD commands
addrmap	Session
application	
discriminator	
address-type	
address	
appid	Type: uinteger
discr	Type: uinteger
addrtype	Type: uinteger
addr	Type: ipaddr
__readonly__	
TABLE_bfdSessMapTable	Address Map table
ciscoBfdSessApplicationId	Type: uinteger
ciscoBfdSessDiscriminator	Type: uinteger
ciscoBfdSessAddrType	Type: uinteger
ciscoBfdSessAddr	Type: ipaddr
ciscoBfdSessMapBfdIndex	Type: uinteger

Command Modes

- /exec

show bfd discrmap

show bfd discrmap [*discr*] [**__readonly__ TABLE_bfdDiscMapTable** *ciscoBfdSessDiscMapIndex*]

Syntax Description

show	Show running system information
bfd	BFD commands
discrmap	Session
discr	Type: uinteger
__readonly__	
TABLE_bfdDiscMapTable	Discriminator map table
ciscoBfdSessDiscMapIndex	Type: uinteger

Command Modes

- /exec

show bfd intfipmap

show bfd intfipmap [**interface** *intf* **address-type** *addrtype* **address** *addr*] [**__readonly__ TABLE_ipMapTable** *ciscoBfdSessInterface ciscoBfdSessAddrType ciscoBfdSessAddr ciscoBfdSessIpMapIndex*]

Syntax Description

show	Show running system information
bfd	BFD commands
intfipmap	Session
interface	
address-type	
address	
intf	Type: uinteger
addrtype	Type: uinteger
addr	Type: ipaddr
__readonly__	
TABLE_ipMapTable	ip map table
ciscoBfdSessInterface	Type: uinteger
ciscoBfdSessAddrType	Type: uinteger
ciscoBfdSessAddr	Type: ipaddr
ciscoBfdSessIpMapIndex	Type: uinteger

Command Modes

- /exec

show bfd neighbors

show bfd neighbors {[**module** *module_no*]| [**interface** *intf_id*]| [**application** *bfd_cli_client_names*]| [**src-ip** {*src_ip*| *src_ipv6*}]| [**dest-ip** {*dest_ip*| *dest_ipv6*}]| [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]}+ **[details]** [**__readonly__ TABLE_bfdNeighbor** *local_disc* [*header*] [*vrf_name*] [*src_ip_addr*] [*dest_ip_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*] [*dectect_timer*] [*down_count*] [*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*] [*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
neighbors	neighbors
module	module
module_no	Type: uinteger min: 0 max: 32 module number
interface	interface
intf_id	Type: interface show bfd sessions based on interface id
application	application
bfd_cli_client_names	Type: string length: 255 __nil__ Clients need to register with bfd for this list
src-ip	Source ip
src_ip	Type: ipaddr Source ip value
src_ipv6	Type: ipv6addr Source ipv6 value
dest-ip	Destination ip

dest_ip	Type: ipaddr Destination ip value
dest_ipv6	Type: ipv6addr Destination ipv6 value
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
details	details
__readonly__	
TABLE_bfdNeighbor	BFD Neighbor table
header	Type: uinteger Header
vrf_name	Type: string vrf name
src_ip_addr	Type: ipaddr Source IP address
dest_ip_addr	Type: ipaddr Destination IP address
local_disc	Type: uinteger Local Discriminator
remote_disc	Type: uinteger Remote Discriminator
local_state	Type: string Local State

remote_state	Type: string Remote State
holddown	Type: uinteger Hold Down Time
cur_detect_mult	Type: uinteger Current Detection Multiplier
intf	Type: interface Interface
echo	Type: uinteger Echo enabled
echo_tx	Type: uinteger Echo Tx Interval
local_diag	Type: uinteger Local Diag
demand	Type: uinteger Demand Mode
poll	Type: uinteger Poll Bit
min_tx	Type: uinteger Local Min Tx Interval
min_rx	Type: uinteger Local Min Rx Interval
local_multi	Type: uinteger Local Detection Multiplier
dectect_timer	Type: uinteger Current Detection Timer
down_count	Type: uinteger Session Down Count
tx_interval	Type: uinteger Tx Interval

rx_count	Type: uinteger Tx Count
rx_avg	Type: uinteger Rx Interval Avg
rx_min	Type: uinteger Rx Interval Min
rx_max	Type: uinteger Rx Interval Max
last_rx	Type: uinteger Last Rx time
tx_count	Type: uinteger Tx Count
tx_avg	Type: uinteger Tx Interval Avg
tx_min	Type: uinteger Tx Interval Min
tx_max	Type: uinteger Tx Interval Max
last_tx	Type: uinteger Last Tx time
app	Type: string App name
up_time	Type: longlong Up time
version	Type: uinteger Version in Last Packet
diag	Type: uinteger diag in Last Packet
state_bit	Type: string State Bit in Last Packet

demand_bit	Type: uinteger Demand Bit in Last Packet
poll_bit	Type: uinteger Poll Bit in Last Packet
final_bit	Type: uinteger Final Bit in Last Packet
multiplier	Type: uinteger Detection Multiplier in Last Packet
length	Type: uinteger Length in Last Packet
my_disc	Type: uinteger My Discriminator in Last Packet
your_disc	Type: uinteger Your Discriminator in Last Packet
min_tx_interval	Type: uinteger Min Tx Interval in Last Packet
req_min_rx	Type: uinteger Required Rx Interval in Last Packet
min_echo_interval	Type: uinteger Min Echo Interval in Last Packet
out_str	Type: string No Host LC string
parent	Type: uinteger Parent Session
per_link_str	Type: string Per Link string
host_lc	Type: uinteger Host LC
down_reason	Type: string Session Down Reason

no_host_reason	Type: string Not Hosted Reason
auth	Type: string Authentication Mode
auth_bit	Type: uinteger Auth Bit in Last Packet
print_details	Type: uinteger print details

Command Modes

- /exec

show bfd scalar

show bfd scalar [**__readonly__** *adminStatus version notifEnable*]

Syntax Description

show	Show running system information
bfd	BFD commands
scalar	bfd mib scalars
__readonly__	
adminStatus	bfd admin status **enabled value: 1** BFD enabled **disabled value: 2** BFD disabled
version	Type: uinteger bfd version number
notifEnable	Type: uinteger Enable bfd traps

Command Modes

- /exec

show bfd session

show bfd session {[**discriminator** *sessionIndex*]| [**interface** *intf_id*]| [**application** *app_name*]| [**src-ip** {*src_ip*| *src_ipv6*}]| [**dest-ip** {*dest_ip*| *dest_ipv6*}]| [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]}+ [**__readonly__** *vrf_name_header* **TABLE_bfdSessTable** *ciscoBfdSessIndex isMember ciscoBfdSessApplicationId ciscoBfdSessDiscriminator ciscoBfdSessRemoteDiscr ciscoBfdSessUdpPort ciscoBfdSessState remoteBfdSessState ciscoBfdSessRemoteHeardFlag ciscoBfdSessDiag remoteBfdSessDiag ciscoBfdSessOperMode ciscoBfdSessDemandModeDesiredFlag ciscoBfdSessEchoFuncModeDesiredFlag ciscoBfdSessControlPlanIndepFlag ciscoBfdSessAddrType ciscoBfdSessAddr localBfdSessAddr ciscoBfdSessDesiredMinTxInterval ciscoBfdSessReqMinRxInterval ciscoBfdSessReqMinEchoRxInterval ciscoBfdSessDetectMult remoteBfdSessDesiredMinTxInterval remoteBfdSessReqMinRxInterval remoteBfdSessReqMinEchoRxInterval remoteBfdSessDetectMult ciscoBfdSessStorType ciscoBfdSessRowStatus ciscoBfdSessAuthPresFlag ciscoBfdSessAuthenticationType ciscoBfdSessVersionNumber ciscoBfdSessType ciscoBfdSessInterface ciscoBfdSessPerfPktIn ciscoBfdSessPerfPktOut ciscoBfdSessUpTime ciscoBfdSessPerfLastSessDownTime ciscoBfdSessPerfLastCommLostDiag ciscoBfdSessPerfSessUpCount ciscoBfdSessPerfDiscTime ciscoBfdSessPerfPktInHC ciscoBfdSessPerfPktOutHC effasyncdt effechodt*]

Syntax Description

show	Show running system information
bfd	BFD commands
session	Session
discriminator	Session local discriminator
sessionIndex	Type: uinteger
interface	interface
intf_id	Type: interface show bfd sessions based on interface id
application	application
app_name	Type: string show bfd session based on application name
src-ip	Source ip
src_ip	Type: ipaddr Source ip value
src_ipv6	Type: ipv6addr Source ipv6 value
dest-ip	Destination ip

dest_ip	Type: ipaddr Destination ip value
dest_ipv6	Type: ipv6addr Destination ipv6 value
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
vrf_name_header	Type: string
TABLE_bfdSessTable	BFD Session table
ciscoBfdSessIndex	Type: uinteger
isMember	Type: uinteger
ciscoBfdSessApplicationId	Type: uinteger
ciscoBfdSessDiscriminator	Type: uinteger
ciscoBfdSessRemoteDiscr	Type: uinteger
ciscoBfdSessUdpPort	Type: uinteger

ciscoBfdSessState	Session state **adminDown value: 1** adminDown **down value: 2** down **init value: 3** init **up value: 4** up **failing value: 5** failing
remoteBfdSessState	Session state **adminDown value: 1** adminDown **down value: 2** down **init value: 3** init **up value: 4** up **failing value: 5** failing
ciscoBfdSessRemoteHeardFlag	Type: uinteger

ciscoBfdSessDiag	Session diagnostic code **noDiagnostic value: 1** noDiagnostic **controlDetectionTimeExpired value: 2** controlDetectionTimeExpired **echoFunctionFailed value: 3** echoFunctionFailed **neighborSignaledSessionDown value: 4** neighborSignaledSessionDown **forwardingPlaneReset value: 5** forwardingPlaneReset **pathDown value: 6** pathDown **concatenatedPathDown value: 7** concatenatedPathDown **administrativelyDown value: 8** administrativelyDown **reverseConcatenatedPathDown value: 9** reverseConcatenatedPathDown

remoteBfdSessDiag	Session diagnostic code **noDiagnostic value: 1** noDiagnostic **controlDetectionTimeExpired value: 2** controlDetectionTimeExpired **echoFunctionFailed value: 3** echoFunctionFailed **neighborSignaledSessionDown value: 4** neighborSignaledSessionDown **forwardingPlaneReset value: 5** forwardingPlaneReset **pathDown value: 6** pathDown **concatenatedPathDown value: 7** concatenatedPathDown **administrativelyDown value: 8** administrativelyDown **reverseConcatenatedPathDown value: 9** reverseConcatenatedPathDown
ciscoBfdSessOperMode	ciscoBfdSessOperMode **asyncModeWEchoFun value: 1** asyncModeWEchoFun **asynchModeWOEchoFun value: 2** asynchModeWOEchoFun **demandModeWEchoFunction value: 3** demandModeWEchoFunction **demandModeWOEchoFunction value: 4** demandModeWOEchoFunction
ciscoBfdSessDemandModeDesiredFlag	Type: uinteger
ciscoBfdSessEchoFuncModeDesiredFlag	Type: uinteger
ciscoBfdSessControlPlanIndepFlag	Type: uinteger

ciscoBfdSessAddrType	ciscoBfdSessAddrType **unknown value: 0** unknown **ipv4 value: 1** ipv4 **ipv6 value: 2** ipv6
localBfdSessAddr	Type: ipaddr
ciscoBfdSessAddr	Type: ipaddr
ciscoBfdSessDesiredMinTxInterval	Type: uinteger
ciscoBfdSessReqMinRxInterval	Type: uinteger
ciscoBfdSessReqMinEchoRxInterval	Type: uinteger
ciscoBfdSessDetectMult	Type: uinteger
remoteBfdSessDesiredMinTxInterval	Type: uinteger
remoteBfdSessReqMinRxInterval	Type: uinteger
remoteBfdSessReqMinEchoRxInterval	Type: uinteger
remoteBfdSessDetectMult	Type: uinteger
ciscoBfdSessStorType	ciscoBfdSessStorType **other value: 1** other **volatile value: 2** volatile **nonVolatile value: 3** nonVolatile **permanent value: 4** permanent **readOnly value: 5** readOnly
ciscoBfdSessRowStatus	Type: integer
ciscoBfdSessAuthPresFlag	Type: uinteger

ciscoBfdSessAuthenticationType	ciscoBfdSessAuthenticationType **None value: 0** None **simplePassword value: 1** simplePassword **keyedMD5 value: 2** keyedMD5 **meticulousKeyedMD5 value: 3** meticulousKeyedMD5 **keyedSHA1 value: 4** keyedSHA1 **meticulousKeyedSHA1 value: 5** meticulousKeyedSHA1
ciscoBfdSessVersionNumber	Type: uinteger
ciscoBfdSessType	ciscoBfdSessType **singleHop value: 1** singleHop **multiHop value: 2** multiHop
ciscoBfdSessInterface	Type: uinteger
ciscoBfdSessPerfPktIn	Type: uinteger
ciscoBfdSessPerfPktOut	Type: uinteger
ciscoBfdSessUpTime	Type: uinteger
ciscoBfdSessPerfLastSessDownTime	Type: uinteger
ciscoBfdSessPerfLastCommLostDiag	Type: uinteger
ciscoBfdSessPerfSessUpCount	Type: uinteger
ciscoBfdSessPerfDiscTime	Type: time
ciscoBfdSessPerfPktInHC	Type: longlong
ciscoBfdSessPerfPktOutHC	Type: longlong
effasyncdt	Type: uinteger

effechodt	Type: uinteger

Command Modes

- /exec

show bgp (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{{**ip**| **ipv4**} {**unicast**| **multicast**}| **vpnv4 unicast** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]} [*ip-addr* [*ip-mask* **[longer-prefixes]**]| *ip-prefix* **[longer-prefixes]**| **labels**| **exported**| **imported**]| {**ipv6** {**unicast**| **multicast**}| **vpnv6 unicast** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]| **ipv6 labeled-unicast**} [*ipv6-prefix* **[longer-prefixes]**| **labels**| **exported**| **imported**]| **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]**| **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*]]| **all**} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] [**__readonly__ TABLE_vrf** *vrf-name-out* **TABLE_afi** *afi* **TABLE_safi** *safi table-version router-id* **TABLE_rd** [*rd_val rd_vrf*] **TABLE_prefix** {*ipprefix*| *ipv6prefix*} *totalpaths bestpathnr advertisedto scheduledto flags mpath* [*prefixversion*] *on-newlist on-xmitlist suppressed needsresync locked* **TABLE_path** *pathnr best status type* {*ipnexthop*| *ipv6nexthop*} {*neighbor*| *ipv6neighbor*} *neighborid metric localpref weight* [*existpath aspath origin policyincomplete pathvalid pathbest pathdeleted pathstaled pathhistory pathmultipath pathovermaxaslimit pathnolabeledrnh nexthopmetric aggregator aggregatoras* **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 mdt_grp_addr inlabel vpn hold_down outlabel*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ip-addr	Type: ipaddr Display one particular network from the BRIB in detail
ip-mask	Type: ipaddr Mask for one particular prefix in the BRIB

ip-prefix	Type: ipprefix Display one particular prefix from the BRIB in detail
ipv6-prefix	Type: ipv6prefix Display one particular IPv6 prefix from the BRIB in detail
longer-prefixes	Display route and more specific routes
labels	Display BGP labels for prefixes
exported	Display only exported prefixes
imported	Display only imported prefixes
injected-routes	Display only injected prefixes
mdt-group	Display prefixes with MDT group address *Not available in this release.*
mdt-group	Type: ipaddr MDT group address
rd	Display information for a route distinguisher
ve-id	VPLS VE ID *Not available in this release.*
ve-id	Type: uinteger min: 0 max: 65535 VPLS VE ID
block-offset	VPLS VE Block offset *Not available in this release.*
ve-bs	Type: uinteger min: 0 max: 65535 VPLS VE Block offset
ext-comm-rd-aa4nn2	Type: community VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	Type: community VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*

vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
ip	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
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*
all	Display BGP information for all address families
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_rd	
rd_val	Type: string

rd_vrf	Type: string
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
mpath	Type: string
advertisedto	Type: string
scheduledto	Type: string
prefixversion	Type: integer
on-newlist	Type: bool
on-xmitlist	Type: bool
suppressed	Type: bool
needsresync	Type: bool
locked	Type: bool
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger

localpref	Type: integer
weight	Type: integer
existpath	Type: string
aspath	Type: string
origin	Type: string
policyincomplete	Type: bool
pathvalid	Type: bool
pathbest	Type: bool
pathdeleted	Type: bool
pathstaled	Type: bool
pathhistory	Type: bool
pathmultipath	Type: bool
pathovermaxaslimit	Type: bool
pathnolabeledrnh	Type: bool
nexthopmetric	Type: integer
aggregator	Type: ipaddr
aggregatoras	Type: integer
inlabel	Type: string
vpn	Type: string
hold_down	Type: string
outlabel	Type: string
flappenalty	Type: integer
dampenedtime	Type: string
flaps	Type: integer
flaptime	Type: string
flapflags	Type: integer

flapindex	Type: integer
flaphalflife	Type: integer
flapreuse	Type: integer
flapsuppress	Type: integer
flapmax	Type: integer
con_type	Type: uinteger
con_len	Type: uinteger
con_rd	Type: string
con_ip	Type: ipaddr
mdt_grp_addr	Type: ipaddr
TABLE_community	
community	Type: string
TABLE_extcommunity	
extcommunity	Type: string
originatorid	Type: ipaddr
TABLE_clusterlist	
clusterlist	Type: ipaddr

Command Modes

- /exec

show bgp (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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**| **l2vpn vpls** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]| **all**} {**route-map** {*rmap-name*| *rmap-name*}| **filter-list** {*fltrlist-name*| *test_pol_name*}| {**community-list** {*commlist-name*| *test_pol_name*}| **extcommunity-list** {*extcommlist-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 table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags rd_val rd_vrf* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
route-map	Display routes matching the route-map
rmap-name	Type: string pattern: [!-~]* length: 63 Route-map name
rmap-name	Type: string Known route-map name
filter-list	Display routes matching the filter-list

fltrlist-name	Type: string length: 63 Name of filter-list
community-list	Display routes matching the community-list
commlist-name	Type: string length: 63 Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
extcommlist-name	Type: string length: 63 Name of extcommunity-list
test_pol_name	Type: string An existing test-list policy
rd	Display information for a route distinguisher
ext-comm-rd-aa4nn2	Type: community VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	Type: community VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
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 *Not available in this release.*
labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*

l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
all	Display BGP information for all address families
exact-match	Exact match of the communities
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
rd_val	Type: string
rd_vrf	Type: string
advertisedto	Type: string
scheduledto	Type: string

TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /exec

show bgp (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**} {**rib-install**| **rib-uninstall**| **rib-pending**} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ip	Display BGP information for IPv4 address family
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
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Modes

- /exec

show bgp (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{{**ip**| **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*}]| **l2vpn vpls** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]} **nexthop** *ipnexthop*| {**ipv6** {**unicast**| **multicast**}| **vpnv6 unicast** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]| **ipv6 labeled-unicast**} **nexthop** *ipv6nexthop*} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] [**__readonly__ TABLE_vrf** *vrf-name-out* **TABLE_afi** *afi* **TABLE_safi** *safi table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags rd_val rd_vrf* **TABLE_path** *pathnr best status type ipnexthop-out ipv6nexthop-out neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
rd	Display information for a route distinguisher
ext-comm-rd-aa4nn2	Type: community VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	Type: community VPN route distinguisher in aa:nn format
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
nexthop	Display routes matching the nexthop
ipnexthop	Type: ipaddr Nexthop address

ipv6nexthop	Type: ipv6addr Nexthop address
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer

router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
rd_val	Type: string
rd_vrf	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop-out	Type: ipaddr
ipv6nexthop-out	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /exec

show bgp (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{{**ip**| **ipv4**} {**unicast**| **multicast**}| **vpnv4 unicast**| **ipv4 mdt**| **l2vpn vpls**} **nexthop-database** [*ipnexthop*]| {**ipv6** {**unicast**| **multicast**}| **vpnv6 unicast**} **nexthop-database** [*ipv6nexthop*]| **all nexthop-database**} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] [**__readonly__ TABLE_nhvrf** *nhvrf-name-out* **TABLE_nhafi** *nhafi* **TABLE_nhsafi** *nhsafi* **TABLE_nhtriggerdelay** *nhcriticaldelay nhnoncriticaldelay* [**TABLE_nexthop** {*ipnexthop-out*| *ipv6nexthop-out*} *refcount igpmetric igptype igppref* **TABLE_attachedhops** {*attachedhop*| *ipv6attachedhop*} *interface* [**TABLE_labels** *index label*] *attached local reachable labeled filtered resolvetime* {*ribroute*| *ipv6ribroute*} {*pendingupdate*| *pendingtime*} *nextadvertise*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
nexthop-database	Display nexthop database
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*

vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
ipnexthop	Type: ipaddr Nexthop address
ipv6nexthop	Type: ipv6addr Nexthop address
__readonly__	
TABLE_nhvrf	
nhvrf-name-out	Type: string
TABLE_nhafi	
nhafi	Type: integer
TABLE_nhsafi	
nhsafi	Type: integer
TABLE_nhtriggerdelay	
nhcriticaldelay	Type: uinteger
nhnoncriticaldelay	Type: uinteger
TABLE_nexthop	
ipnexthop-out	Type: ipaddr
ipv6nexthop-out	Type: ipv6addr
refcount	Type: integer
igpmetric	Type: integer
igptype	Type: integer
igppref	Type: integer
TABLE_attachedhops	

attachedhop	Type: ipaddr
ipv6attachedhop	Type: ipv6addr
interface	Type: string
TABLE_labels	
index	Type: integer
label	Type: integer
attached	Type: bool
local	Type: bool
reachable	Type: bool
labeled	Type: bool
filtered	Type: bool
resolvetime	Type: string
pendingupdate	Type: bool
pendingtime	Type: string
ribroute	Type: ipprefix
ipv6ribroute	Type: ipv6prefix
nextadvertise	Type: string

Command Modes

- /exec

show bgp (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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 dampeningenabled historypaths dampenedpaths* **TABLE_prefix** *ipprefix ipv6prefix status best pathtype peer ipv6peer flapcount duration reuse penalty suppresslimit reuselimit*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
flap-statistics	Display route flap statistics
ip-prefix	Type: ipprefix Display flap statistics for one prefix
ipv6-prefix	Type: ipv6prefix Display flap statistics for one prefix
ip-addr	Type: ipaddr Display flap statistics for one network
ip-mask	Type: ipaddr Network mask
ip	Display BGP information for IPv4 address family
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__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	Type: integer
TABLE_safi	
safi	Type: integer
dampeningenabled	Type: bool
historypaths	Type: integer
dampenedpaths	Type: integer
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
status	Type: string
best	Type: bool
pathtype	Type: string
peer	Type: ipaddr
ipv6peer	Type: ipv6addr
flapcount	Type: integer
duration	Type: string
reuse	Type: string
penalty	Type: integer
suppresslimit	Type: integer

reuselimit	Type: integer

Command Modes

- /exec

show bgp (bgp)

show [ip] bgp {**peer-session** [*session-template-name*]| **peer-policy** [*policy-template-name*]} [**__readonly__** *present* [**TABLE_command** *command polarity*] [**TABLE_vrf** *vrf-name* **TABLE_peer** *inheritingpeer*]]

Syntax Description

show	Show running system information
ip	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
session-template-name	Type: string length: 80 Peer-session name
policy-template-name	Type: string length: 80 Peer-policy name
__readonly__	
present	Type: bool
TABLE_command	
command	Type: string
polarity	Type: bool
TABLE_vrf	
vrf-name	Type: string
TABLE_peer	
inheritingpeer	Type: string

Command Modes

- /exec

show bgp (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**} **policy statistics** {**redistribute** [{**eigrp**| **isis**| **ospf**| **rip**} *tag*| **static**| **direct**| **amt**| **lisp**]| **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**]| **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*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
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	ISO IS-IS
ospf	Open Shortest Path First
ospfv3	Open Shortest Path First v3
rip	Routing Information Protocol
eigrp	Enhanced Interior Gateway Protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
tag	Type: string Source protocol tag
neighbor	Show neighbor specific counters
neighbor-id	Type: ipaddr Neighbor IPv4 address
ipv6-neighbor-id	Type: ipv6addr Neighbor IPv6 address
route-map	Neighbor route-map
prefix-list	Neighbor prefix-list
filter-list	Neighbor filter-list
out	Outbound policy
in	Inbound policy
default-originate	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
ip-addr	Type: ipaddr IP network advertised
ip-mask	Type: ipaddr Dotted 4-octet mask
ip-prefix	Type: ipprefix IP prefix in CIDR format
ipv6-prefix	Type: ipv6prefix IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128
__readonly__	
TABLE_vrf	
vrf-name-polstats	Type: string
rpm-handle-count	Type: integer

Command Modes

- /exec

show bgp community

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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**| **l2vpn vpls** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]| **all**} **community** {*regexp-str*| {*comm-id*| *wellknown-id*}+ **[exact-match]**} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] [**__readonly__ TABLE_vrf** *vrf-name-out* **TABLE_afi** *afi* **TABLE_safi** *safi table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags rd_val rd_vrf* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
rd	Display information for a route distinguisher
ext-comm-rd-aa4nn2	Type: community VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	Type: community VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family

vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*
all	Display BGP information for all address families
community	Display routes matching the BGP communities
regexp-str	Type: string Regular expression to match the communities
comm-id	Type: community BGP community value
wellknown-id	BGP wellknown community **no-export value: 1** Do not export to next AS (well-known community) **no-advertise value: 2** Do not advertise to any peer (well-known community) **no-export-subconfed value: 3** Do not send outside local AS (well known community)
exact-match	Exact match of the communities
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string

TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
rd_val	Type: string
rd_vrf	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr

ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /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__ TABLE_vrf** *vrf-name-out bestpathtimeout updatedelay firstpeerup configuredtimeout timerrunning timerexpires starttime configdonetime juststarted initwaittime ldpconverged ulibconvergencesent* **TABLE_afi** *afi* **TABLE_safi** *safi signalledtime firstbestpathdone riblibconvergencesent importtimerrunning importtimerexpires* **TABLE_rcvdpeers** *peer ipv6peer peerstarttime* **TABLE_notrcvdpeers** *notpeer notipv6peer nokeepalive*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
convergence	Display information about convergence
detail	Display detailed information about convergence
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
bestpathtimeout	Type: integer
updatedelay	Type: bool
firstpeerup	Type: string
configuredtimeout	Type: integer
timerrunning	Type: bool

timerexpires	Type: string
starttime	Type: string
configdonetime	Type: string
juststarted	Type: bool
initwaittime	Type: string
ldpconverged	Type: string
ulibconvergencesent	Type: string
TABLE_afi	
afi	Type: integer
TABLE_safi	
safi	Type: integer
signalledtime	Type: string
firstbestpathdone	Type: bool
riblibconvergencesent	Type: string
importtimerrunning	Type: bool
importtimerexpires	Type: string
TABLE_rcvdpeers	
peer	Type: ipaddr
ipv6peer	Type: ipv6addr
peerstarttime	Type: string
TABLE_notrcvdpeers	
notpeer	Type: ipaddr
notipv6peer	Type: ipv6addr
nokeepalive	Type: bool

Command Modes

- /exec

show bgp convergence private

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] **convergence private** [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
convergence	Display information about convergence
private	Display private information about convergence

Command Modes

- /exec

show bgp dampening

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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**| **l2vpn vpls** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]| **all**} **dampening** {**dampened-paths** [**regexp** *regexp-str*]| **flap-statistics**| **parameters**| **history-paths** [**regexp** *regexp-str*]} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] [**__readonly__ TABLE_vrf** *vrf-name-out* **TABLE_afi** *afi* **TABLE_safi** *safi table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags rd_val rd_vrf* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
dampened-paths	Display all dampened paths
history-paths	Display all history paths
dampening	Display dampening info
flap-statistics	Display flap statistics for routes
parameters	Display dampening parameters
rd	Display information for a route distinguisher
ext-comm-rd-aa4nn2	Type: community VPN route distinguisher in aa4:nn or ip:nn format

ext-comm-rd-aa2nn4	Type: community VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
all	Display BGP information for all address families
regexp	Display routes matching the AS path regular expression
regexp-str	Type: string Regular expression to match the AS paths
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	

safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
rd_val	Type: string
rd_vrf	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer

weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /exec

show bgp default-info

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**} **default-info** [**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
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
default-info	Display information about default routes
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

Command Modes

- /exec

show bgp extcommunity

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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**| **l2vpn vpls** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]| **all**} **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**}] [**__readonly__ TABLE_vrf** *vrf-name-out* **TABLE_afi** *afi* **TABLE_safi** *safi table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags rd_val rd_vrf* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
rd	Display information for a route distinguisher
ext-comm-rd-aa4nn2	Type: community VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	Type: community VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family

vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
all	Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
regexp-str	Type: string Regular expression to match the extcommunities
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
ext-comm-gen-trans	Type: community Extcommunity number aa4:nn format
ext-comm-gen-nontrans	Type: community Extcommunity number aa4:nn format
exact-match	Exact match of the extcommunities
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	

afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
rd_val	Type: string
rd_vrf	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr

neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /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-state*] [*vrf-state-rsn*] [*vrf-router-id*] [*vrf-cfgd-id*] [*vrf-local-as*] [*vrf-confed-id*] [*vrf-cluster-id*] [*vrf-peers*] [*vrf-pending-peers*] [*vrf-est-peers*] [*vrf-rd*] [*vrf-cfgd-max-as-limit*] [*vrf-max-as-limit*] [*vrf-pending-rd*] **TABLE_af** *af-id* [*af-name*] [*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*] [*af-label-mode*] [*af-aggregate-label*] [*af-rr*] [**TABLE_export_rt** *export-rt*] [**TABLE_import_rt** *import-rt*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
l3vpn	BGP l3vpn information *Not available in this release.*
vrf	Virtual Router Context
detail	Detailed information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
__readonly__	Read Only
TABLE_vrf	
vrf-name-out	Type: string VRF name
vrf-id	Type: uinteger VRF ID
vrf-state	Type: string VRF State

vrf-state-rsn	Type: string VRF State Reason
vrf-router-id	Type: string Router ID
vrf-cfgd-id	Type: string Configured Router-ID
vrf-local-as	Type: string Local AS
vrf-confed-id	Type: string Cluster-ID
vrf-cluster-id	Type: string Cluster-ID
vrf-peers	Type: uinteger No. of configured peers
vrf-pending-peers	Type: uinteger No. of pending peers
vrf-est-peers	Type: uinteger No. of established peers
vrf-rd	Type: string VRF RD
vrf-cfgd-max-as-limit	Type: uinteger Configured maxas-limit
vrf-max-as-limit	Type: uinteger Active maxas-limit
vrf-pending-rd	Type: string VRF pending RD
TABLE_af	
af-id	Type: uinteger AF table ID
af-name	Type: string AF table name

af-state	Type: string AF table state
af-state-rsn	Type: string AF table state reason
af-num-peers	Type: uinteger No. of peers
af-num-active-peers	Type: uinteger No. of active peers
af-peer-routes	Type: uinteger No. of peer routes
af-peer-paths	Type: uinteger No. of peer paths
af-peer-networks	Type: uinteger No. of peer networks
af-peer-aggregates	Type: uinteger No. of aggregates
af-export-rmap	Type: string Export route-map
af-import-rmap	Type: string Import route-map
af-retain-rt	Type: string Retain RT
af-label-mode	Type: string Label allocation mode
af-aggregate-label	Type: uinteger Aggregate Label
af-rr	Type: bool Is a Route-reflector
TABLE_export_rt	
export-rt	Type: string Export route target

TABLE_import_rt	
import-rt	Type: string Import route target

Command Modes

- /exec

show bgp neighbors (bgp)

show bgp {[**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**}| **vpnv4 unicast**| **vpnv6 unicast**| **ipv6 labeled-unicast**} **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 table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
neighbors	Display all configured BGP neighbors
neighbor-id	Type: ipaddr Display one particular BGP neighbor
ipv6-neighbor-id	Type: ipv6addr Display one particular IPv6 BGP neighbor
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*

labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*
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
routes	Display all routes advertised/received to/from peer
advertised	Display all routes advertised to this peer
received	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	Display all dampened routes received from this peer
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix

totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /exec

show bgp neighbors (bgp)

show bgp {[**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**}| **vpnv4 unicast**| **vpnv6 unicast**| **ipv6 labeled-unicast**| **l2vpn vpls**} **neighbors** [*neighbor-id*| *ipv6-neighbor-id*| *neighbor-prefix-id*| *ipv6-neighbor-prefix-id*] [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] [**__readonly__ TABLE_neighbor** {*neighbor*| *ipv6neighbor*| *templatepeer*} [*remoteas*] [*localas*] *link* [*index*] *configpeer* [*inherit-template*] [*inherit-session-template*] [*prefix-parent*| *ipv6prefix-parent*] [*description*] *version remote-id state up elapsedtime* [*restarttime*] [*sourceif*] [*connectedif*] [*connectedcheck*] [*lowmemexempt*] [*bfd*] [*ttlsecurity*] [*ttllimit*] [*localas-inactive*] [*passiveonly*] [*password*] [*remove-privateas*] [*lastread holdtime keepalivetime lastwrite keepalive notificationsrcvd recvbufbytes notificationssent sentbytesoutstanding connsestablished connsdropped connattempts peerresettime peerresetreason resettime resetreason*] *configholdtime configkeepalivetime* [*grstate grexpiry*] *firstkeepalive openssent opensrecvd notifssent notifsrecvd updatessent updatesrecvd keepalivesent keepaliverecvd rtrefreshsent rtrefreshrecvd capabilitiessent capabilitiesrecvd msgsent msgrecvd bytessent bytesrecvd threadid fd passivethreadid passivefd localaddr ipv6localaddr localport* {*remoteaddr*| *ipv6remoteaddr*} *remoteport capsnegotiated capmpadvertised capgradvertised capaddpathsadvertised caprefreshadvertised capmprecvd capgrrecvd capaddpathsrecvd caprefreshrecvd capolddynamicadvertised capolddynamicrecvd caprradvertised caprrrecvd capoldrradvertised capoldrrrecvd capas4advertised capas4recvd grrestarttime grstaletime grrecvdrestarttime* [**TABLE_af** *af-afi* **TABLE_saf** *af-safi af-advertised af-recvd*] [**TABLE_graf** *gr-afi* **TABLE_grsaf** *gr-safi gr-adv gr-recv gr-fwd*] [**TABLE_addpathscapaf** *addpathscap-afi* **TABLE_addpathscapsaf** *addpathscap-safi addpathssendcap-adv addpathsrecvcap-adv addpathssendcap-recv addpathsrecvcap-recv*] [**TABLE_peraf** *per-afi* **TABLE_persaf** *per-safi tableversion neighbortableversion pfxrecvd pfxbytes pfxsent* [*srpermitted*] [*sendcommunity*] [*sendextcommunity*] *maxpfx maxpfx_threshold* {*localnexthop*| *ipv6localnexthop*} [*thirdpartynexthop*] [*rrconfigured*] [*defaultoriginate*] [*defaultoriginatermap*] *defaultsent grpathssaved grEoRrecvd grEoRtime* [*soo*] [*unsuppress-map*] [*weight*] [*signaling-proto*] [**TABLE_policy_template** *preference inherit-policy-template*]] [**TABLE_inpolicy** *inpolicynr inpolicytype inpolicyname inpolicyhandle*] [**TABLE_outpolicy** *outpolicynr outpolicytype outpolicyname outpolicyhandle*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs

neighbors	Display all configured BGP neighbors
neighbor-id	Type: ipaddr Display one particular BGP neighbor
ipv6-neighbor-id	Type: ipv6addr Display one particular IPv6 BGP neighbor
neighbor-prefix-id	Type: ipprefix Display details for a prefix peering
ipv6-neighbor-prefix-id	Type: ipv6prefix Display details for an IPv6 prefix peering
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
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 *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
all	Display BGP information for all address families
__readonly__	
TABLE_neighbor	
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
templatepeer	Type: string

remoteas	Type: integer
localas	Type: integer
link	**ebgp value: 1** **ibgp value: 2** **confed-ebgp value: 3**
index	Type: integer
configpeer	Type: bool
inherit-template	Type: string
inherit-session-template	Type: string
prefix-parent	Type: ipprefix
ipv6prefix-parent	Type: ipv6prefix
description	Type: string
version	Type: integer
remote-id	Type: ipaddr
state	**Idle value: 1** **Connect value: 2** **Active value: 3** **OpenSent value: 4** **OpenConfirm value: 5** **Established value: 6** **Closing value: 7** **Shut (Admin) value: 8** **Shut (PfxCt) value: 9** **Shut (NoMem) value: 10** **Shut (Error) value: 11**

up	Type: bool
elapsedtime	Type: string
restarttime	Type: string
sourceif	Type: interface
connectedif	Type: interface
connectedcheck	Type: bool
lowmemexempt	Type: bool
bfd	Type: bool
ttlsecurity	Type: bool
ttllimit	Type: integer
localas-inactive	Type: bool
passiveonly	Type: bool
password	Type: bool
remove-privateas	Type: bool
lastread	Type: string
holdtime	Type: integer
keepalivetime	Type: integer
lastwrite	Type: string
keepalive	Type: string
msgrecvd	Type: integer
notificationsrcvd	Type: integer
recvbufbytes	Type: integer
msgsent	Type: integer
notificationssent	Type: integer
sentbytesoutstanding	Type: integer
connsestablished	Type: integer

connsdropped	Type: integer
connattempts	Type: integer
peerresettime	Type: string
peerresetreason	Type: string
resettime	Type: string
resetreason	Type: string
configholdtime	Type: integer
configkeepalivetime	Type: integer
grstate	**Restart value: 1** **Stale value: 2**
grexpiry	Type: string
firstkeepalive	Type: bool
openssent	Type: integer
opensrecvd	Type: integer
notifssent	Type: integer
notifsrecvd	Type: integer
updatessent	Type: integer
updatesrecvd	Type: integer
keepalivesent	Type: integer
keepaliverecvd	Type: integer
rtrefreshsent	Type: integer
rtrefreshrecvd	Type: integer
capabilitiessent	Type: integer
capabilitiesrecvd	Type: integer
bytessent	Type: integer
bytesrecvd	Type: integer

threadid	Type: integer
fd	Type: integer
passivethreadid	Type: integer
passivefd	Type: integer
localaddr	Type: ipaddr
ipv6localaddr	Type: ipv6addr
localport	Type: integer
remoteaddr	Type: ipaddr
ipv6remoteaddr	Type: ipv6addr
remoteport	Type: integer
capsnegotiated	Type: bool
capmpadvertised	Type: bool
capgradvertised	Type: bool
capaddpathsadvertised	Type: bool
caprefreshadvertised	Type: bool
capmprecvd	Type: bool
capgrrecvd	Type: bool
capaddpathsrecvd	Type: bool
caprefreshrecvd	Type: bool
capolddynamicadvertised	Type: bool
capolddynamicrecvd	Type: bool
caprradvertised	Type: bool
caprrrecvd	Type: bool
capoldrradvertised	Type: bool
capoldrrrecvd	Type: bool
capas4advertised	Type: bool

capas4recvd	Type: bool
TABLE_af	
af-afi	Type: integer
TABLE_saf	
af-safi	Type: integer
af-advertised	Type: bool
af-recvd	Type: bool
TABLE_graf	
gr-afi	Type: integer
TABLE_grsaf	
gr-safi	Type: integer
gr-adv	Type: bool
gr-recv	Type: bool
gr-fwd	Type: bool
grrestarttime	Type: integer
grstaletime	Type: integer
grrecvdrestarttime	Type: integer
TABLE_addpathscapaf	
addpathscap-afi	Type: integer
TABLE_addpathscapsaf	
addpathscap-safi	Type: integer
addpathssendcap-adv	Type: bool
addpathsrecvcap-adv	Type: bool
addpathssendcap-recv	Type: bool
addpathsrecvcap-recv	Type: bool
TABLE_peraf	
per-afi	Type: integer
TABLE_persaf	

per-safi	Type: integer
tableversion	Type: integer
neighbortableversion	Type: integer
pfxrecvd	Type: integer
pfxbytes	Type: integer
pfxsent	Type: integer
srpermitted	Type: bool
sendcommunity	Type: bool
sendextcommunity	Type: bool
maxpfx	Type: integer
maxpfx_threshold	Type: integer
localnexthop	Type: ipaddr
ipv6localnexthop	Type: ipv6addr
rrconfigured	Type: bool
defaultoriginate	Type: bool
defaultoriginatermap	Type: string
defaultsent	Type: bool
grpathssaved	Type: integer
grEoRrecvd	Type: bool
grEoRtime	Type: string
soo	Type: string
weight	Type: uinteger
signaling-proto	Type: string
thirdpartynexthop	Type: bool
unsuppress-map	Type: string
TABLE_policy_template	
preference	Type: integer

inherit-policy-template	Type: string
TABLE_inpolicy	
inpolicynr	Type: integer
inpolicytype	Type: string
inpolicyname	Type: string
inpolicyhandle	Type: bool
TABLE_outpolicy	
outpolicynr	Type: integer
outpolicytype	Type: string
outpolicyname	Type: string
outpolicyhandle	Type: bool

Command Modes

- /exec

show bgp neighbors commands

show bgp {[**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**}| **vpnv4 unicast**| **vpnv6 unicast**} **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* [**TABLE_polcmd** *policycmd policycmdstatus* [*policycmdtemplate*]]]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
neighbor-id	Type: ipaddr Display one particular BGP neighbor
ipv6-neighbor-id	Type: ipv6addr Display one particular IPv6 BGP neighbor
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
unicast	Display BGP information for unicast address family

multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
neighbors	Display all configured BGP neighbors
commands	Display details on commands
__readonly__	
TABLE_sesscmd	
sessioncmd	Type: string
sessioncmdstatus	Type: string
sessioncmdtemplate	Type: string
TABLE_af	
af-afi	Type: integer
TABLE_saf	
af-safi	Type: integer
TABLE_polcmd	
policycmd	Type: string
policycmdstatus	Type: string
policycmdtemplate	Type: string

Command Modes

- /exec

show bgp neighbors flap-statistics

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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 dampeningenabled historypaths dampenedpaths* **TABLE_prefix** *ipprefix ipv6prefix status best pathtype peer ipv6peer flapcount duration reuse penalty suppresslimit reuselimit*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
neighbors	Display all configured BGP neighbors
neighbor-id	Type: ipaddr Display one particular BGP neighbor
ipv6-neighbor-id	Type: ipv6addr Display one particular IPv6 BGP neighbor
ip	Display BGP information for IPv4 address family
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__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	Type: integer
TABLE_safi	
safi	Type: integer
dampeningenabled	Type: bool
historypaths	Type: integer
dampenedpaths	Type: integer
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
status	Type: string
best	Type: bool
pathtype	Type: string
peer	Type: ipaddr
ipv6peer	Type: ipv6addr
flapcount	Type: integer
duration	Type: string
reuse	Type: string
penalty	Type: integer
suppresslimit	Type: integer
reuselimit	Type: integer

Command Modes

- /exec

show bgp neighbors paths

show bgp {[**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**}| **vpnv4 unicast**| **vpnv6 unicast**| **ipv6 labeled-unicast**} **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 hashvalue refcount metric aspath*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
neighbors	Display all configured BGP neighbors
neighbor-id	Type: ipaddr Display one particular BGP neighbor
ipv6-neighbor-id	Type: ipv6addr Display one particular IPv6 BGP neighbor
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
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 *Not available in this release.*
all	Display BGP information for all address families
paths	Display AS paths learned from this peer
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	Type: integer
TABLE_safi	
safi	Type: integer
hashvalue	Type: integer
refcount	Type: integer
metric	Type: integer
aspath	Type: string

Command Modes

- /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	Display IP information
bgp	Display BGP status and configuration
paths	Display Path information
__readonly__	
TABLE_id	
id	Type: integer
hashvalue	Type: integer
refcount	Type: integer
metric	Type: uinteger
aspath	Type: string
origin	Type: string

Command Modes

- /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*] [*ttlsecurity*] [*ttllimit*] [*passiveonly*] [*password*] [*remove-privateas*] [*configholdtime configkeepalivetime*] [**TABLE_peraf** *per-afi* **TABLE_persaf** *per-safi* [*srpermitted*] [*sendcommunity*] [*sendextcommunity*] [*maxpfx*] [*maxpfx_threshold*] [*localnexthop*| *ipv6localnexthop*] [*thirdpartynexthop*] [*rrconfigured*] [*defaultoriginate*] [*defaultoriginatermap*] [*grpathssaved*] [*grEoRrecvd*] [*grEoRtime*] [**TABLE_policy_template** *preference inherit-policy-template*] [**TABLE_inpolicy** *inpolicynr inpolicytype inpolicyname inpolicyhandle*] [**TABLE_outpolicy** *outpolicynr outpolicytype outpolicyname outpolicyhandle*]]]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
peer-template	Display information about a peer-template
peer-template-name	Type: string length: 80 Peer-template name
__readonly__	
TABLE_neighbor	
templatepeer	Type: string
remoteas	Type: integer
inherit-template	Type: string
inherit-session-template	Type: string
prefix-parent	Type: ipprefix
ipv6prefix-parent	Type: ipv6prefix
description	Type: string
sourceif	Type: interface
connectedcheck	Type: bool
lowmemexempt	Type: bool

bfd	Type: bool
ttlsecurity	Type: bool
ttllimit	Type: uinteger
passiveonly	Type: bool
password	Type: bool
remove-privateas	Type: bool
configholdtime	Type: integer
configkeepalivetime	Type: integer
TABLE_peraf	
TABLE_persaf	
per-afi	Type: integer
per-safi	Type: integer
srpermitted	Type: bool
sendcommunity	Type: bool
sendextcommunity	Type: bool
maxpfx	Type: integer
maxpfx_threshold	Type: integer
localnexthop	Type: ipaddr
ipv6localnexthop	Type: ipv6addr
inpolicynr	Type: integer
inpolicytype	Type: string
inpolicyname	Type: string
inpolicyhandle	Type: bool
outpolicynr	Type: integer
outpolicytype	Type: string
outpolicyname	Type: string
outpolicyhandle	Type: bool

rrconfigured	Type: bool
defaultoriginate	Type: bool
defaultoriginatermap	Type: string
grpathssaved	Type: integer
grEoRrecvd	Type: bool
grEoRtime	Type: string
thirdpartynexthop	Type: bool
TABLE_policy_template	
preference	Type: integer
inherit-policy-template	Type: string
TABLE_inpolicy	
TABLE_outpolicy	

Command Modes

- /exec

show bgp prefix-list

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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 table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
prefix-list	Display routes matching the prefix-list
prfxlist-name	Type: string length: 63 Name of prefix-list
test_pol_name	Type: string An existing test-list policy
ip	Display BGP information for IPv4 address family
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__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr

neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /exec

show bgp private

show bgp private [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {**all_private**| **session**| **ipc**| **rnh**| **lists**| **rpm-info** [**route-map** *rpm-name* {*ip-prefix*| *ipv6-prefix*}]| **attr** [*ip-prefix*]| **rpm-attribute-cache**| **rpm-comm-attr-cache**| **virtual [summary]**} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
all_private	Show all info
session	Show session info
lists	Show BGP internal lists
route-map	Show information for route-map
rpm-info	Show BGP policy outbound info
ip-prefix	Type: ipprefix Show attribute for a prefix
ipv6-prefix	Type: ipv6prefix Show attribute for an IPv6 prefix
rpm-name	Type: string pattern: [!-~]* length: 63 Route-map name
attr	Show attribute information
ipc	Show ipc information
rnh	Show recursive next hops
rpm-attribute-cache	Show rpm attribute cache statistics
rpm-comm-attr-cache	Show rpm community attribute cache statistics
summary	Summary only

virtual	Virtualization related
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs

Command Modes

- /exec

show bgp private attr

show bgp private attr [[[**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
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
detail	Show detailed info
ip-prefix	Type: ipprefix Show attribute for a prefix
ipv6-prefix	Type: ipv6prefix Show attribute for an IPv6 prefix

Command Modes

- /exec

show bgp private damp

show bgp private [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**} **damp** [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
vrf	Virtual Router Context
vrf-name	Type: string pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ip	Display BGP information for IPv4 address family
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
damp	Show dampening info

Command Modes

- /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__ TABLE_vrf** *vrf-name-out* [*vrf-id*] [*vrf-state*] [*vrf-state-rsn*] [*vrf-router-id*] [*vrf-cfgd-id*] [*vrf-local-as*] [*vrf-confed-id*] [*vrf-cluster-id*] [*vrf-peers*] [*vrf-pending-peers*] [*vrf-est-peers*] [*vrf-rd*] [*vrf-cfgd-max-as-limit*] [*vrf-max-as-limit*] [*vrf-pending-rd*] **TABLE_af** *af-id* [*af-name*] [*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*] [*af-label-mode*] [*af-aggregate-label*] [*af-rr*] [**TABLE_redist** *protocol route-map*] **TABLE_add_paths_selection** *route-map* **TABLE_export_rt** *export-rt* **TABLE_import_rt** *import-rt*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
process	BGP global information
detail	Detailed information
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
__readonly__	Read Only
TABLE_vrf	
vrf-name-out	Type: string VRF name
vrf-id	Type: uinteger VRF ID

vrf-state	Type: string VRF State
vrf-state-rsn	Type: string VRF State Reason
vrf-router-id	Type: string Router ID
vrf-cfgd-id	Type: string Configured Router-ID
vrf-local-as	Type: string Local AS
vrf-confed-id	Type: string Cluster-ID
vrf-cluster-id	Type: string Cluster-ID
vrf-peers	Type: uinteger No. of configured peers
vrf-pending-peers	Type: uinteger No. of pending peers
vrf-est-peers	Type: uinteger No. of established peers
vrf-rd	Type: string VRF RD
vrf-cfgd-max-as-limit	Type: uinteger Configured maxas-limit
vrf-max-as-limit	Type: uinteger Active maxas-limit
vrf-pending-rd	Type: string VRF pending RD
TABLE_af	
af-id	Type: uinteger AF table ID

af-name	Type: string AF table name
af-state	Type: string AF table state
af-state-rsn	Type: string AF table state reason
af-num-peers	Type: uinteger No. of peers
af-num-active-peers	Type: uinteger No. of active peers
af-peer-routes	Type: uinteger No. of peer routes
af-peer-paths	Type: uinteger No. of peer paths
af-peer-networks	Type: uinteger No. of peer networks
af-peer-aggregates	Type: uinteger No. of aggregates
af-export-rmap	Type: string Export route-map
af-import-rmap	Type: string Import route-map
af-retain-rt	Type: string Retain RT
af-label-mode	Type: string Label allocation mode
af-aggregate-label	Type: uinteger Aggregate Label
af-rr	Type: bool Is a Route-reflector

TABLE_redist	
protocol	Type: string Protocol
route-map	Type: string Route Map
TABLE_add_paths_selection	
route-map	Type: string Route Map
TABLE_export_rt	
export-rt	Type: string Export route target
TABLE_import_rt	
import-rt	Type: string Import route target

Command Modes

- /exec

show bgp received-paths

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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**| **l2vpn vpls** [**rd** {*ext-comm-rd-aa2nn4*| *ext-comm-rd-aa4nn2*}]| **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 table-version router-id* **TABLE_prefix** *ipprefix ipv6prefix totalpaths bestpathnr advertisedto scheduledto flags rd_val rd_vrf* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
received-paths	Display paths stored for soft-reconfig
rd	Display information for a route distinguisher
ext-comm-rd-aa4nn2	Type: community VPN route distinguisher in aa4:nn or ip:nn format
ext-comm-rd-aa2nn4	Type: community VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family

vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
labeled-unicast	Display BGP information for labeled-unicast address family *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
all	Display BGP information for all address families
private	private
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix

ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
rd_val	Type: string
rd_vrf	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /exec

show bgp regexp

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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 table-version router-id* **TABLE_prefix** [*ipprefix*| *ipv6prefix*] *totalpaths bestpathnr advertisedto scheduledto flags* **TABLE_path** *pathnr best status type* {*ipnexthop*| *ipv6nexthop*} {*neighbor*| *ipv6neighbor*} *neighborid metric localpref weight aspath origin prefixversion on-newlist on-xmitlist suppressed needsresync locked policyincomplete pathvalid pathbest pathdeleted pathstaled pathhistory pathmultipath pathovermaxaslimit nexthopmetric* [*aggregator aggregatoras*] [**TABLE_community** *community*] [**TABLE_extcommunity** *extcommunity*] [*originatorid* [**TABLE_clusterlist** *clusterlist*]] [*flappenalty dampenedtime flaps flaptime flapflags flapindex flaphalflife flapreuse flapsuppress flapmax*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ip	Display BGP information for IPv4 address family
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

regexp-str	Type: string Regular expression to match the AS paths
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string

ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr
metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string
prefixversion	Type: integer
on-newlist	Type: bool
on-xmitlist	Type: bool
suppressed	Type: bool
needsresync	Type: bool
locked	Type: bool
policyincomplete	Type: bool
pathvalid	Type: bool
pathbest	Type: bool
pathdeleted	Type: bool
pathstaled	Type: bool
pathhistory	Type: bool
pathmultipath	Type: bool
pathovermaxaslimit	Type: bool
nexthopmetric	Type: integer
aggregator	Type: ipaddr

aggregatoras	Type: integer
TABLE_community	
community	Type: string
TABLE_extcommunity	
extcommunity	Type: string
originatorid	Type: ipaddr
TABLE_clusterlist	
clusterlist	Type: ipaddr
flappenalty	Type: integer
dampenedtime	Type: string
flaps	Type: integer
flaptime	Type: string
flapflags	Type: integer
flapindex	Type: integer
flaphalflife	Type: integer
flapreuse	Type: integer
flapsuppress	Type: integer
flapmax	Type: integer

Command Modes

- /exec

show bgp self-originated

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **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 table-version router-id* **TABLE_prefix** {*ipprefix*| *ipv6prefix*} *totalpaths bestpathnr advertisedto scheduledto flags* **TABLE_path** *pathnr best status type ipnexthop ipv6nexthop neighbor ipv6neighbor neighborid metric localpref weight aspath origin*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ip	Display BGP information for IPv4 address family
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__	
TABLE_vrf	
vrf-name-out	Type: string

TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
TABLE_safi	
safi	**unicast value: 1** **multicast value: 2**
table-version	Type: integer
router-id	Type: ipaddr
TABLE_prefix	
ipprefix	Type: ipprefix
ipv6prefix	Type: ipv6prefix
totalpaths	Type: integer
bestpathnr	Type: integer
flags	Type: string
advertisedto	Type: string
scheduledto	Type: string
TABLE_path	
pathnr	Type: integer
best	Type: string
status	Type: string
type	Type: string
ipnexthop	Type: ipaddr
ipv6nexthop	Type: ipv6addr
neighbor	Type: ipaddr
ipv6neighbor	Type: ipv6addr
neighborid	Type: ipaddr

metric	Type: uinteger
localpref	Type: integer
weight	Type: integer
aspath	Type: string
origin	Type: string

Command Modes

- /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 remoteas connectionsdropped lastflap lastread lastwrite state localport remoteport notificationssent notificationsreceived*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
sessions	Display session information for all peers
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
local-as	Type: integer
totalpeers	Type: integer
totalestablishedpeers	Type: integer
router-id	Type: ipaddr
localas	Type: integer
vrfpeers	Type: integer
vrfestablishedpeers	Type: integer

TABLE_neighbor	
neighbor-id	Type: string
remoteas	Type: integer
connectionsdropped	Type: integer
lastflap	Type: duration
lastread	Type: duration
lastwrite	Type: duration
state	**Idle value: 1** **Connect value: 2** **Active value: 3** **OpenSent value: 4** **OpenConfirm value: 5** **Established value: 6** **Closing value: 7** **Shut (Admin) value: 8** **Shut (PfxCt) value: 9** **Shut (NoMem) value: 10** **Shut (Error) value: 11**
localport	Type: string
remoteport	Type: string
notificationssent	Type: integer
notificationsreceived	Type: integer

Command Modes

- /exec

show bgp statistics

show bgp statistics [**__readonly__** *msgsent msgrecvd bytesent byterecvd opensent openrecvd updatesent updaterecvd kasent karecvd notifsent notifrecvd rrefreshsent rrefreshrecvd capsent caprecvd*]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
statistics	BGP global statistics
__readonly__	
msgsent	Type: integer
msgrecvd	Type: integer
bytesent	Type: integer
byterecvd	Type: integer
opensent	Type: integer
openrecvd	Type: integer
updatesent	Type: integer
updaterecvd	Type: integer
kasent	Type: integer
karecvd	Type: integer
notifsent	Type: integer
notifrecvd	Type: integer
rrefreshsent	Type: integer
rrefreshrecvd	Type: integer
capsent	Type: integer
caprecvd	Type: integer

Command Modes

- /exec

show bgp summary (bgp)

show bgp {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **ipv4 mdt**| **vpnv4 unicast**| **vpnv6 unicast**| **ipv6 labeled-unicast**| **l2vpn vpls**| **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-router-id*] [*vrf-cfgd-id*] [*vrf-local-as*] [*vrf-confed-id*] [*vrf-cluster-id*] [*vrf-peers*] [*vrf-pending-peers*] [*vrf-est-peers*] [*vrf-rd*] [*vrf-cfgd-max-as-limit*] [*vrf-max-as-limit*] [*vrf-pending-rd*] **TABLE_af** *af-id* [*af-name*] [*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*] [*af-label-mode*] [*af-aggregate-label*] [*af-rr*] **TABLE_saf** *safi* [*tableversion*] [*configuredpeers*] [*capablepeers*] [*totalnetworks*] [*totalpaths*] [*memoryused*] [*numberattrs*] [*bytesattrs*] [*numberpaths*] [*bytespaths*] [*numbercommunities*] [*bytescommunities*] [*numberclusterlist*] [*bytesclusterlist*] [*dampening*] [*historypaths*] [*dampenedpaths*] [*softreconfigrecvdpaths*] [*softreconfigidenticalpaths*] [*softreconfigcombopaths*] [*softreconfigfilteredrecvd*] [*softreconfigbytes*] **TABLE_neighbor** *neighborid* [*neighborversion*] [*neighboras*] [*msgrecvd*] [*msgsent*] [*neighbortableversion*] [*inq*] [*outq*] [*time*] [*prefixreceived*] [*state*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
summary	Display summarized information of BGP state
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family *Not available in this release.*
vpnv6	Display BGP information for VPNv6 address family *Not available in this release.*

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 *Not available in this release.*
mdt	Display BGP information for multicast distribution tree *Not available in this release.*
l2vpn	Display BGP information for L2VPN address family *Not available in this release.*
vpls	Display BGP information for L2VPN VPLS address family *Not available in this release.*
all	Display BGP information for all address families
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string VRF name
vrf-id	Type: uinteger VRF ID
vrf-state	Type: string VRF State
vrf-state-rsn	Type: string VRF State Reason
vrf-router-id	Type: string Router ID
vrf-cfgd-id	Type: string Configured Router-ID
vrf-local-as	Type: string Local AS
vrf-confed-id	Type: string Cluster-ID

vrf-cluster-id	Type: string Cluster-ID
vrf-peers	Type: uinteger No. of configured peers
vrf-pending-peers	Type: uinteger No. of pending peers
vrf-est-peers	Type: uinteger No. of established peers
vrf-rd	Type: string VRF RD
vrf-cfgd-max-as-limit	Type: uinteger Configured maxas-limit
vrf-max-as-limit	Type: uinteger Active maxas-limit
vrf-pending-rd	Type: string VRF pending RD
TABLE_af	
af-id	Type: uinteger AF table ID
af-name	Type: string AF table name
af-state	Type: string AF table state
af-state-rsn	Type: string AF table state reason
af-num-peers	Type: uinteger No. of peers
af-num-active-peers	Type: uinteger No. of active peers
af-peer-routes	Type: uinteger No. of peer routes

af-peer-paths	Type: uinteger No. of peer paths
af-peer-networks	Type: uinteger No. of peer networks
af-peer-aggregates	Type: uinteger No. of aggregates
af-export-rmap	Type: string Export route-map
af-import-rmap	Type: string Import route-map
af-retain-rt	Type: string Retain RT
af-label-mode	Type: string Label allocation mode
af-aggregate-label	Type: uinteger Aggregate Label
af-rr	Type: bool Is a Route-reflector
TABLE_saf	
safi	**unicast value: 1** **multicast value: 2**
tableversion	Type: integer
configuredpeers	Type: integer
capablepeers	Type: integer
totalnetworks	Type: integer
totalpaths	Type: integer
memoryused	Type: integer
numberattrs	Type: integer

bytesattrs	Type: integer
numberpaths	Type: integer
bytespaths	Type: integer
numbercommunities	Type: integer
bytescommunities	Type: integer
numberclusterlist	Type: integer
bytesclusterlist	Type: integer
dampening	Type: string
historypaths	Type: integer
dampenedpaths	Type: integer
softreconfigrecvdpaths	Type: integer
softreconfigidenticalpaths	Type: integer
softreconfigcombopaths	Type: integer
softreconfigfilteredrecvd	Type: integer
softreconfigbytes	Type: integer
TABLE_neighbor	
neighborid	Type: string
neighborversion	Type: integer
neighboras	Type: string
msgrecvd	Type: integer
msgsent	Type: integer
neighbortableversion	Type: integer
inq	Type: integer
outq	Type: integer
time	Type: string
prefixreceived	Type: integer

state	**Idle value: 1** **Connect value: 2** **Active value: 3** **OpenSent value: 4** **OpenConfirm value: 5** **Established value: 6** **Closing value: 7** **Shut (Admin) value: 8** **Shut (PfxCt) value: 9** **Shut (NoMem) value: 10** **Shut (Error) value: 11**

Command Modes

- /exec

show bgp summary (bgp)

show bgp [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {{**ip**| **ipv4**} {**unicast**| **multicast**}| **ipv6** {**unicast**| **multicast**}| **all**} **summary** [**__readonly__ TABLE_vrf** *vrf-name-out* [*vrf-id*] [*vrf-state*] [*vrf-state-rsn*] [*vrf-router-id*] [*vrf-cfgd-id*] [*vrf-local-as*] [*vrf-confed-id*] [*vrf-cluster-id*] [*vrf-peers*] [*vrf-pending-peers*] [*vrf-est-peers*] [*vrf-rd*] [*vrf-cfgd-max-as-limit*] [*vrf-max-as-limit*] [*vrf-pending-rd*] **TABLE_af** *af-id* [*af-name*] [*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*] [*af-label-mode*] [*af-aggregate-label*] [*af-rr*] **TABLE_saf** *safi* [*tableversion*] [*configuredpeers*] [*capablepeers*] [*totalnetworks*] [*totalpaths*] [*memoryused*] [*numberattrs*] [*bytesattrs*] [*numberpaths*] [*bytespaths*] [*numbercommunities*] [*bytescommunities*] [*numberclusterlist*] [*bytesclusterlist*] [*dampening*] [*historypaths*] [*dampenedpaths*] [*softreconfigrecvdpaths*] [*softreconfigidenticalpaths*] [*softreconfigcombopaths*] [*softreconfigfilteredrecvd*] [*softreconfigbytes*] **TABLE_neighbor** *neighborid* [*neighborversion*] [*neighboras*] [*msgrecvd*] [*msgsent*] [*neighbortableversion*] [*inq*] [*outq*] [*time*] [*prefixreceived*] [*state*]]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
summary	Display summarized information of BGP state
ip	Display BGP information for IPv4 address family
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__	
TABLE_vrf	
vrf-name-out	Type: string VRF name
vrf-id	Type: uinteger VRF ID
vrf-state	Type: string VRF State
vrf-state-rsn	Type: string VRF State Reason
vrf-router-id	Type: string Router ID
vrf-cfgd-id	Type: string Configured Router-ID
vrf-local-as	Type: string Local AS
vrf-confed-id	Type: string Cluster-ID
vrf-cluster-id	Type: string Cluster-ID
vrf-peers	Type: uinteger No. of configured peers
vrf-pending-peers	Type: uinteger No. of pending peers
vrf-est-peers	Type: uinteger No. of established peers
vrf-rd	Type: string VRF RD
vrf-cfgd-max-as-limit	Type: uinteger Configured maxas-limit

vrf-max-as-limit	Type: uinteger Active maxas-limit
vrf-pending-rd	Type: string VRF pending RD
TABLE_af	
af-id	Type: uinteger AF table ID
af-name	Type: string AF table name
af-state	Type: string AF table state
af-state-rsn	Type: string AF table state reason
af-num-peers	Type: uinteger No. of peers
af-num-active-peers	Type: uinteger No. of active peers
af-peer-routes	Type: uinteger No. of peer routes
af-peer-paths	Type: uinteger No. of peer paths
af-peer-networks	Type: uinteger No. of peer networks
af-peer-aggregates	Type: uinteger No. of aggregates
af-export-rmap	Type: string Export route-map
af-import-rmap	Type: string Import route-map
af-retain-rt	Type: string Retain RT

af-label-mode	Type: string Label allocation mode
af-aggregate-label	Type: uinteger Aggregate Label
af-rr	Type: bool Is a Route-reflector
TABLE_saf	
safi	**unicast value: 1** **multicast value: 2**
tableversion	Type: integer
configuredpeers	Type: integer
capablepeers	Type: integer
totalnetworks	Type: integer
totalpaths	Type: integer
memoryused	Type: integer
numberattrs	Type: integer
bytesattrs	Type: integer
numberpaths	Type: integer
bytespaths	Type: integer
numbercommunities	Type: integer
bytescommunities	Type: integer
numberclusterlist	Type: integer
bytesclusterlist	Type: integer
dampening	Type: string
historypaths	Type: integer
dampenedpaths	Type: integer
softreconfigrecvdpaths	Type: integer

softreconfigidenticalpaths	Type: integer
softreconfigcombopaths	Type: integer
softreconfigfilteredrecvd	Type: integer
softreconfigbytes	Type: integer
TABLE_neighbor	
neighborid	Type: string
neighborversion	Type: integer
neighboras	Type: string
msgrecvd	Type: integer
msgsent	Type: integer
neighbortableversion	Type: integer
inq	Type: integer
outq	Type: integer
time	Type: string
prefixreceived	Type: integer
state	**Idle value: 1** **Connect value: 2** **Active value: 3** **OpenSent value: 4** **OpenConfirm value: 5** **Established value: 6** **Closing value: 7** **Shut (Admin) value: 8** **Shut (PfxCt) value: 9** **Shut (NoMem) value: 10** **Shut (Error) value: 11**

Command Modes

- /exec

show boot

show boot [**__readonly__** [**TABLE_bootvar_show** *Str1*]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
__readonly__	
TABLE_bootvar_show	Bootvar table
Str1	Type: string

Command Modes

- /exec

show boot auto-copy

show boot auto-copy [**__readonly__** [**TABLE_auto_copy** *Str1*]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autocopy is turned on
__readonly__	
TABLE_auto_copy	Auto copy table
Str1	Type: string

Command Modes

- /exec

show boot auto-copy list

show boot auto-copy list [**__readonly__** [**TABLE_auto_copy_list** *Str1*]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autocopy is turned on
list	Show the list of files to be auto-copied
__readonly__	
TABLE_auto_copy_list	Auto copy table
Str1	Type: string

Command Modes

- /exec

show boot current

show boot current [**__readonly__** [**TABLE_bootvar_current** *Str1*]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
current	Show Current Bootvar Variables
__readonly__	
TABLE_bootvar_current	Bootvar current table
Str1	Type: string

Command Modes

- /exec

show boot module

show boot module [[*module*] [*s0*] [**__readonly__** [**TABLE_show_mod** *Str1*]]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
module	Enter module to show config of all modules
module	Type: integer Enter module number to show config
s0	Type: string Enter module keyword to show config
__readonly__	
TABLE_show_mod	Show Module table
Str1	Type: string

Command Modes

- /exec

show boot sup-1

show boot sup-1 [**__readonly__** [**TABLE_show_sup1** *Str1*]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
sup-1	Enter sup-1 to show the 1st sup config
__readonly__	
TABLE_show_sup1	Show Sup-1 bootvar table
Str1	Type: string

Command Modes

- /exec

show boot sup-2

show boot sup-2 [**__readonly__** [**TABLE_show_sup2** *Str1*]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
sup-2	Enter sup-2 to show the 2nd sup config
__readonly__	
TABLE_show_sup2	Show Sup-22 bootvar table
Str1	Type: string

Command Modes

- /exec

show boot variables

show boot variables [**__readonly__** [**TABLE_boot_vars** *Str1*]]

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
variables	Display the list of boot variables
__readonly__	
TABLE_boot_vars	Show boot variables table
Str1	Type: string

Command Modes

- /exec

show bootmode

show bootmode [**module** *module*] [**__readonly__ TABLE_bootmode_info** *mod_num bootmode*]

Syntax Description

show	Show running system information
bootmode	show bootmode of the all linecard modules
module	show bootmode of a specific linecard module
module	Type: integer please enter module number
__readonly__	
TABLE_bootmode_info	
mod_num	Type: uinteger
bootmode	Type: string

Command Modes

- /exec

show buffers ip

show buffers ip

Syntax Description

show	Show running system information
buffers	Display detailed buffer statistics
ip	Display IP buffer information

Command Modes

- /exec

C Show Commands

- show callhome, page 184
- show callhome destination-profile, page 186
- show callhome destination-profile profile, page 187
- show callhome destination-profile profile CiscoTAC-1, page 189
- show callhome destination-profile profile full-txt-destination, page 190
- show callhome destination-profile profile short-txt-destination, page 191
- show callhome transport, page 192
- show callhome transport-email, page 194
- show callhome user-def-cmds, page 195
- show cdp (cdpd), page 196
- show cdp (cdpd), page 197
- show cdp global, page 199
- show cdp neighbors, page 200
- show cdp neighbors detail, page 202
- show cdp traffic interface2, page 205
- show cfs application, page 207
- show cfs lock, page 209
- show cfs merge status, page 211
- show cfs peers, page 214
- show cfs regions, page 216
- show cfs remote-app vsan domain, page 218
- show cfs remote-switches vsan, page 219
- show cfs static peers, page 220
- show cfs status, page 221

- show checkpoint (cfg_rollback), page 222
- show checkpoint (cfg_rollback), page 223
- show checkpoint summary, page 224
- show class-map, page 225
- show class-map type control-plane, page 231
- show class-map type network-qos, page 236
- show cli alias, page 237
- show cli dynamic integers, page 238
- show cli dynamic strings, page 239
- show cli history, page 240
- show cli interface table, page 241
- show cli list, page 242
- show cli registry, page 243
- show cli syntax, page 244
- show cli variables, page 245
- show clock, page 246
- show clock utc, page 248
- show configuration session (ssnmgr), page 249
- show configuration session (ssnmgr), page 250
- show configuration session global-info, page 251
- show configuration session status, page 252
- show configuration session summary, page 254
- show consistency-checker forwarding ipv6show forwarding ipv6 inconsistency, page 255
- show consistency-checker forwardingshow forwarding inconsistency, page 257
- show consistency-checker racl port-channels, page 259
- show copp diff profile profile2, page 260
- show copp profile, page 262
- show copp status, page 274
- show copyright, page 276
- show cores, page 277
- show crypto ca certificates (certen_tree), page 279
- show crypto ca certificates (certen_tree), page 280
- show crypto ca certstore, page 281

- show crypto ca crl, page 282
- show crypto ca remote-certstore, page 283
- show crypto ca trustpoints, page 284
- show crypto certificatemap, page 285
- show crypto key mypubkey rsa, page 286
- show crypto ssh-auth-map, page 287
- show current, page 288

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
__readonly__	
output_state	Type: string
info	Type: string
per_name	Type: string
name	Type: string
email_info	Type: string
email_conf	Type: string
ph_info	Type: string
ph_conf	Type: string
str_addr	Type: string
str_conf	Type: string
site_id	Type: string
site_id_conf	Type: string
cust_id	Type: string
cus_id_conf	Type: string
contr_id	Type: string
contr_id_conf	Type: string
swi_pri	Type: string
swi_pri_value	Type: string
dup_mess	Type: string

per_inv	Type: string
per_time	Type: string
per_timeofday	Type: string
dist	Type: string

Command Modes

- /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* [*email_conf*] *url_info* [*url_conf*] *alert_groups* [*alert_conf*]]

Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
__readonly__	
TABLE_call_info	
dest_full_info	Type: string
dest_short_info	Type: string
dest_xml_info	Type: string
dest_def_info	Type: string
max_mess_size	Type: string
mess_format	Type: string
mess_level	Type: string
trans_method	Type: string
email_info	Type: string
email_conf	Type: string
url_info	Type: string
url_conf	Type: string
alert_groups	Type: string
alert_conf	Type: string

Command Modes

- /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** [*email_conf*]] *url_info* [**TABLE_url** [*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
s0	Type: string length: 32 Show information for user defined destination profile
__readonly__	
user_txt_info	Type: string
max_mess_size	Type: string
mess_format	Type: string
mess_level	Type: string
trans_method	Type: string
email_info	Type: string
TABLE_email	
email_conf	Type: string
url_info	Type: string
TABLE_url	
url_conf	Type: string
alert_groups	Type: string
TABLE_alert	
alert_conf	Type: string

Command Modes

- /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* [*email_conf*] *url_info* [*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
__readonly__	
tac_xml_info	Type: string
max_mess_size	Type: string
mess_level	Type: string
trans_method	Type: string
email_info	Type: string
email_conf	Type: string
url_info	Type: string
url_conf	Type: string
alert_groups	Type: string
alert_conf	Type: string

Command Modes

- /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* [*email_conf*] *url_info* [*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
__readonly__	
full_txt_info	Type: string
max_mess_size	Type: string
mess_level	Type: string
trans_method	Type: string
email_info	Type: string
email_conf	Type: string
url_info	Type: string
url_conf	Type: string
alert_groups	Type: string
alert_conf	Type: string

Command Modes

- /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* [*email_conf*] *url_info* [*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
__readonly__	
shrt_txt_info	Type: string
max_mess_size	Type: string
mess_level	Type: string
trans_method	Type: string
email_info	Type: string
email_conf	Type: string
url_info	Type: string
url_conf	Type: string
alert_groups	Type: string
alert_conf	Type: string

Command Modes

- /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)
__readonly__	
vrf	Type: string
from_email	Type: string
rep_email	Type: string
ret_email	Type: string
smtp_ser	Type: string
smtp_ser_port	Type: string
smtp_ser_vrf	Type: string
smtp_ser_prior	Type: string
smtp_ser_do	Type: string
smtp_ser_port_do	Type: string
smtp_ser_vrf_do	Type: string
smtp_ser_prior_do	Type: string
smtp_ser_got	Type: string
smtp_ser_port_got	Type: string
smtp_ser_vrf_got	Type: string
smtp_ser_prior_got	Type: string
http_prox	Type: string

http_port	Type: string
http_state	Type: string

Command Modes

- /exec

show callhome transport-email

show callhome transport-email

Syntax Description

show	Show running system information
callhome	Show callhome information
transport-email	Show callhome email transport configuration

Command Modes

- /exec

show callhome user-def-cmds

show callhome user-def-cmds

Syntax Description

show	Show running system information
callhome	Show callhome information
user-def-cmds	Show the cli commands configured for each alert group

Command Modes

- /exec

show cdp (cdpd)

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
if0	Type: interface
__readonly__	Read only
TABLE_cdp_all	output of show cdp all
intf_id	Type: string Interface Id
port_up	Type: string Port status
cdp_global_enabled	Type: string CDP global status
cdp_intf_enabled	Type: string CDP interface status
oper_mode	Type: string CDP operation mode
refresh_time	Type: string Refresh Time
ttl	Type: string Hold Time

Command Modes

- /exec

show cdp (cdpd)

show cdp entry {**all1**| **name** *s0*} [**__readonly__ TABLE_cdp_entry_all** [*ifindex*] *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
all1	Show all CDP entries in database
name	Show a specific CDP entry matching a name
s0	Type: string length: 256
__readonly__	Read only
TABLE_cdp_entry_all	output of show cdp entry all
ifindex	Type: string Interface Index
device_id	Type: string Device Identifier
sysname	Type: string System Name
v4addr	Type: string Interface IP V4 Address
v6addr	Type: string Interface IP V6 Address
platform_id	Type: string Platform Id
capability	Type: string Capability

intf_id	Type: string Interface Id
port_id	Type: string Port Identifier
ttl	Type: string Hold Time
version	Type: string Software Version
version_no	Type: string CDP version number
nativevlan	Type: string NativeVLAN
vtpname	Type: string Vtp Management Domain Name
duplexmode	Type: string Duplex Mode
syslocation	Type: string System Location
v4mgmtaddr	Type: string IP V4 Mgmt Address
v6mgmtaddr	Type: string IP V6 Mgmt Address

Command Modes

- /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
__readonly__	Read only
cdp_global_enabled	Type: string CDP global status
refresh_time	Type: string Refresh Time
ttl	Type: string Hold Time
v2_advertisement	Type: string Show v2 advertisement
deviceid_format	Type: string Show deviceId Format

Command Modes

- /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*]

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
neighbors	Show CDP neighbors
interface	Show CDP neighbors on an interface
if	Type: interface-mrange
__readonly__	Read only
TABLE_cdp_neighbor_brief_info	output of show cdp neighbor - in breif
ifindex	Type: uinteger Interface index
device_id	Type: string System Name (or) Device Identifier
intf_id	Type: string Interface Id
port_id	Type: string Port Identifier
platform_id	Type: string Platform Id
ttl	Type: uinteger Hold Time

capability	Capability **router value: 1** performing level-3 routing **tb-bridge value: 2** performing level-2 transparent bridging **sr-bridge value: 3** performing level-2 source route bridging **switch value: 4** Provides layer-2 and/or layer-3 switching **host value: 5** Host **IGMP_cnd_filtering value: 6** IGMP conditional filtering **Repeater value: 7** Provides level-1 functionality **VoIP_Phone value: 8** Provides voice or data telephony capability **Remotely_managed-device value: 9** Remotely-Managed Device **Supports-STP-Dispute value: 10** Supports-STP-Dispute

Command Modes

- /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*}+]]

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
neighbors	Show CDP neighbors
detail	Show CDP neighbors detailed
interface	Show CDP neighbors on an interface
if	Type: interface-mrange
__readonly__	Read only
TABLE_cdp_neighbor_detail_info	output of show cdp neighbor detail
ifindex	Type: uinteger Interface index
device_id	Type: string Device Identifier
sysname	Type: string System Name
vtpname	Type: string Vtp Management Domain Name
numaddr	Type: uinteger No of IP Address configured
v4addr	Type: ipaddr Interface IP V4 Address
v6addr	Type: ipv6addr Interface IP V6 Address
platform_id	Type: string Platform Id

capability	Capability **router value: 1** performing level-3 routing **tb-bridge value: 2** performing level-2 transparent bridging **sr-bridge value: 3** performing level-2 source route bridging **switch value: 4** Provides layer-2 and/or layer-3 switching **host value: 5** Host **IGMP_cnd_filtering value: 6** IGMP conditional filtering **Repeater value: 7** Provides level-1 functionality **VoIP_Phone value: 8** Provides voice or data telephony capability **Remotely_managed-device value: 9** Remotely-Managed Device **Supports-STP-Dispute value: 10** Supports-STP-Dispute
intf_id	Type: string Interface Id
port_id	Type: string Port Identifier
ttl	Type: uinteger Hold Time
version	Type: string Software Version

version_no	CDP version number **v1 value: 1** CDP version 1 **v2 value: 2** CDP version 2
nativevlan	Type: uinteger NativeVLAN
duplexmode	Duplex Mode **half value: 1** half duplex mode **full value: 2** full duplex mode
mtu	Type: uinteger MTU
syslocation	Type: string System Location
num_mgmtaddr	Type: uinteger No of Mgmt Address configured
v4mgmtaddr	Type: ipaddr IP V4 Mgmt Address
v6mgmtaddr	Type: ipv6addr IP V6 Mgmt Address

Command Modes

- /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*]

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
if2	Type: interface
__readonly__	Read only
TABLE_cdp_traffic	output of show cdp traffic
intf_id	Type: string Interface Id
total_input_packets	Type: string Total input cdp packets
valid_cdp_packets	Type: string Total valid cdp packets
input_v1_packets	Type: string Input vesrion1 packets
input_v2_packets	Type: string Input vesrion2 packets
invalid_cdp_packets	Type: string Invalid cdp packets
unsupported_version	Type: string Packets having unsupported version
checksum_errors	Type: string Packets having checksum errors

malformed_packets	Type: string Total malformed packets
total_output_packets	Type: string Total output packets
output_v1_packets	Type: string Output vesrion1 packets
output_v2_packets	Type: string Output vesrion2 packets
send_errors	Type: string Number of send errors

Command Modes

- /exec

show cfs application

show cfs application [**name** *cfs-dyn-app-name*| **sap** *i0*] [**__readonly__** [**enabled** *enabled* **timeout** *timeout* **merge_capable** *merge_capable* **scope** *scope* **region** *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	Show local application information by name
cfs-dyn-app-name	Type: string length: 60 Registered name of the local application
sap	Show local application information by sap
i0	Type: integer Registered sap of the local application
__readonly__	
enabled	whether application is CFS enabled
enabled	Type: string whether application is CFS enabled
timeout	timeout
timeout	Type: string timeout
merge_capable	merge_capable
merge_capable	Type: string merge_capable
scope	scope
scope	Type: string scope
region	region

region	Type: string region
TABLE_apps	all cfs applications
app_name	Type: string name of cfs application
app_enabled	Type: string whether application is cfs enabled
app_scope	Type: string distribution scope of cfs application

Command Modes

- /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	Application name for which the lock status is required
cfs-dyn-app-name	Type: string length: 60 Registered name of the local application
sap	Application sap for which the lock status is required
i1	Type: integer Application SAP
__readonly__	
TABLE_locks	table of all CFS locks
app_name	Type: string name of CFS application
app_scope	Type: string scope of CFS application
vsan	Type: string vsan
domain	Type: string domain
wwn	Type: string wwn of switch holding CFS lock
ip_addr	Type: string ip address of switch holding CFS lock

u_name	Type: string user name
u_type	Type: string user type
hostname	Type: string hostname

Command Modes

- /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	Show merge status by name
cfs-dyn-app-name	Type: string length: 60 Registered name of the local application
detail	Show merge status by name in detail
sap	Show merge status by sap
i1	Type: integer Application sap
detail2	Show merge status by sap in detail
__readonly__	
scope	distribution scope of application
scope	Type: string scope
merge_status	status
status	Type: string status
failure_reason	reason

reason	Type: string reason
TABLE_all_merge	all
app_name	Type: string name
scope	Type: string scope
vsan	Type: string vsan
status	Type: string status
TABLE_local_fabric	local fabric
domain	Type: string domain
wwn	Type: string wwn
ip_addr	Type: string ip_addr
app_scope	Type: string scope
master	Type: string master
hostname	Type: string hname
TABLE_remote_fabric	remote fabric
domain	Type: string domain
wwn	Type: string wwn

ip_addr	Type: string ip_addr
app_scope	Type: string scope
master	Type: string master
hostname	Type: string hname
TABLE_remaining_fabric	remote fabric
domain	Type: string domain
wwn	Type: string wwn
ip_addr	Type: string ip_addr
hostname	Type: string hname

Command Modes

- /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	Show peers for given application name
cfs-dyn-app-name	Type: string length: 60 Registered name of the local application
sap	Show peers for given application sap
i1	Type: integer Application sap
__readonly__	
scope	scope
scope	Type: string scope
TABLE_peers	all peers
wwn	Type: string wwn
ip_addr	Type: string ip_addr
local	Type: string local
hostname	Type: string hname
domain	Type: string domain

Command Modes

- /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	Show all configured regions and applications(no peers)
region	Show all configured applications(no peers)
i0	Type: integer min: 1 max: 200 Region Id
name	Show peers and region information for a given application
cfs-dyn-app-name	Type: string length: 60 Registered name of the local application
region1	Show all configured applications with peers
i1	Type: integer min: 1 max: 200 Region Id
__readonly__	
region	region
id	Type: string id
application	app
name	Type: string name
scope	scope

scope	Type: string scope
TABLE_PEERS	all region peers
wwn	Type: string wwn
ip_addr	Type: string ip_address
local	Type: string local
hostname	Type: string hname
domain	Type: string domain
TABLE_switches	all switches in region
wwn	Type: string wwn
ip_addr	Type: string ip_addr
region	Type: string region
app_name	Type: string name
enabled	Type: string enabled
scope	Type: string scope

Command Modes

- /exec

show cfs remote-app vsan domain

show cfs remote-app vsan *i0* **domain** *i1*

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
remote-app	Show remote cfs registered applications
vsan	Show remote applications given a vsan
i0	Type: integer min: 1 max: 4093 VSAN id
domain	Show remote applications
i1	Type: integer min: 0 max: 255 Enter the domain id

Command Modes

- /exec

show cfs remote-switches vsan

show cfs remote-switches vsan *i0* [**__readonly__ local** *domain* [**TABLE_switches** *remote_domain wwn*]]

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
remote-switches	Show remote switches on a given vsan
vsan	Show remote switches on a given vsan
i0	Type: integer min: 1 max: 4093 VSAN id
__readonly__	
local	local
domain	Type: string domain
TABLE_switches	all remote switches
remote_domain	Type: string rdomain
wwn	Type: string wwn

Command Modes

- /exec

show cfs static peers

show cfs static peers

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
static	Show all static peers with status
peers	Show all configured static peers with status

Command Modes

- /exec

show cfs status

show cfs status [**__readonly__ distribution** *distribution* **distribution_over_ip** *dist_over_ip* **ipv4_multicast_address** *ipv4_mcast_addr* **ipv6_multicast_address** *ipv6_mcast_addr* **distribution_over_ethernet** *dist_over_eth*]

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
status	Show current status of CFS
__readonly__	
distribution	runtime status of CFS distribution
distribution	Type: string operational status of CFS distribution
distribution_over_ip	runtime information of CFSoIP
dist_over_ip	Type: string operational status of CFS overIP
ipv4_multicast_address	ipv4 multicast address
ipv4_mcast_addr	Type: string ipv4 multicast address
ipv6_multicast_address	ipv6 multicast address
ipv6_mcast_addr	Type: string ipv6 multicast address
distribution_over_ethernet	runtime status if CFSoE
dist_over_eth	Type: string operations status of CFSoE

Command Modes

- /exec

show checkpoint (cfg_rollback)

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
chkpoint_name	Type: string length: 80 Checkpoint name
all	Show default config
__readonly__	Read only
TABLE_checkpoint_details	Checkpoint details
name1	Type: string length: 80 Checkpoint name
checkpoint_config	Type: string length: 255 Configuration entry from checkpoint

Command Modes

- /exec

show checkpoint (cfg_rollback)

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	Show default config
user	Show only user configuration rollback checkpoints
system	Show only system configuration rollback checkpoints
__readonly__	Read only
TABLE_checkpoint_details	checkpoint details
name	Type: string length: 80 Checkpoint name
checkpoint_config	Type: string length: 255 Configuration entry from checkpoint

Command Modes

- /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

show	Show running system information
checkpoint	Show configuration rollback checkpoints
summary	Show configuration rollback checkpoints summary
user	Show only user configuration rollback checkpoints summary
system	Show only system configuration rollback checkpoints summary
__readonly__	Read only
TABLE_checkpoint_header_info	Checkpoint header info
user_name	Type: string length: 31 Username
name	Type: string length: 80 Checkpoint name
file_path	Type: string length: 128 Checkpoint name
timestamp	Type: integer Timestamp of checkpoint creation
chkpt_type	Type: integer Type of checkpoint either user or system
description	Type: remainder Checkpoint description

Command Modes

- /exec

show class-map

show class-map [[**type qos**] [*cmap-name*| **xxx** *color-map-enum-name*]| **type queuing** [**yyy** *cmap-enum-name*| **zzz** *default-cmap-enum-name*| *cmap-dce-name*| *cmap-name-hque*]] [**__readonly__** [*display-all*] [**TABLE_cmap** *cmap-key* [*id*] *xqos-or-q* [*any_or_all*] *cmap-name-out* [*desc*] [**TABLE_match** *match-key* [*not*] [*dscp-list*] [*precedence-list*] [*cos-list*] [*qos-group-list*] [*discard-class-list*] [*vlan-list*] [*match-cmap-name*] [*match-acl-name*] [*note-string*] [*pkt-len-list*] [*rtp-port-list*] [*prot*] [*input-iface-list*] [*exp-list*]]]]

Syntax Description

xxx	xxx *Not available in this release.*
yyy	yyy *Not available in this release.*
zzz	zzz *Not available in this release.*
show	Show running system information
class-map	Show class maps
type	Type of the class-map
qos	type qos
queuing	type queuing
cmap-name	Type: string antipattern: type | typ | ty | t | class-default | class | default length: 40 class map name

cmap-enum-name

2q4t-in-q1 value: 1

Ingress queue 1 of 2q4t type

2q4t-in-q-default value: 2

Ingress default queue of 2q4t type

8q2t-in-q1 value: 3

Ingress queue 1 of 8q2t type

8q2t-in-q2 value: 4

Ingress queue 2 of 8q2t type

8q2t-in-q3 value: 5

Ingress queue 3 of 8q2t type

8q2t-in-q4 value: 6

Ingress queue 4 of 8q2t type

8q2t-in-q5 value: 7

Ingress queue 5 of 8q2t type

8q2t-in-q6 value: 8

Ingress queue 6 of 8q2t type

8q2t-in-q7 value: 9

Ingress queue 7 of 8q2t type

8q2t-in-q-default value: 10

Ingress default queue of 8q2t type

1p3q4t-out-pq1 value: 11

Egress priority queue of 1p3q4t type

1p3q4t-out-q2 value: 12

Egress queue 2 of 1p3q4t type

1p3q4t-out-q3 value: 13

Egress queue 3 of 1p3q4t type

1p3q4t-out-q-default value: 14

Egress default queue of 1p3q4t type

1p7q4t-out-pq1 value: 15

Egress priority queue of 1p7q4t type

1p7q4t-out-q2 value: 16

Egress queue 2 of 1p7q4t type

1p7q4t-out-q3 value: 17

	Egress queue 3 of 1p7q4t type **1p7q4t-out-q4 value: 18** Egress queue 4 of 1p7q4t type **1p7q4t-out-q5 value: 19** Egress queue 5 of 1p7q4t type **1p7q4t-out-q6 value: 20** Egress queue 6 of 1p7q4t type **1p7q4t-out-q7 value: 21** Egress queue 7 of 1p7q4t type **1p7q4t-out-q-default value: 22** Egress default queue of 1p7q4t type
default-cmap-enum-name	**in-q1 value: 1** Ingress queue 1 for default policy **in-q-default value: 2** Ingress default queue for default policy **out-pq1 value: 3** Egress priority queue for default policy **out-q2 value: 4** Egress queue 2 for default policy **out-q3 value: 5** Egress queue 3 for default policy **out-q-default value: 6** Egress default queue for default policy
cmap-dce-name	Type: string antipattern: type | typ | ty | t | class-default | class | default length: 40 Queuing class-map name
cmap-name-hque	Type: string antipattern: type | typ | ty | t | class-default | class | default length: 40 Hierarchical class-map name
color-map-enum-name	

__readonly__	
display-all	Type: integer Display all kinds of class-maps
TABLE_cmap	all cmap xml sessions
cmap-key	Type: string Class-map name: xml key
TABLE_match	all match xml sessions
match-key	Type: uinteger match count: xml key
cmap-name-out	Type: string Class-map name
xqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
any_or_all	Enter match-any or match-all **match-any value: 1** Logical-OR all match statements under this classmap **match-all value: 2** Logical-AND all match statements under this classmap
id	Type: uinteger Class-map ID
desc	Type: string length: 200 Description string
not	Type: uinteger Negate this match result
dscp-list	Type: integer-mrange List of DSCP values

precedence-list	Type: integer-mrange List of precedence values
cos-list	Type: integer-mrange List of class-of-service values
qos-group-list	Type: integer-mrange List of qos-group values
discard-class-list	Type: integer-mrange List of discard-class values
vlan-list	Type: vlan-mrange List of vlan-ids
match-cmap-name	Type: string class-map name
match-acl-name	Type: string Match class-map name
note-string	Type: string length: 300 Placeholder string param to display any info in string format
pkt-len-list	Type: integer-mrange Packet length multi-range
rtp-port-list	Type: integer-mrange IP RTP UDP port multi-range
prot	Type: integer Protocol
input-iface-list	Type: interface-mrange Input Interface multi-range
exp-list	Type: integer-mrange List of MPLS exp values

Command Modes

- /exec

show class-map type control-plane

show class-map type control-plane [*cmap-name*] [**__readonly__** [**TABLE_cmap** *cmap-key cmap-name-out opt_any_or_all* [**TABLE_match** *match-key* [**access_grp** *acc_grp_name*] [**redirect** *opt_match_redirect*] [**exception** *opt_match_excpt*] [**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
cmap-name	Type: string length: 64 Name of the class-map
__readonly__	
TABLE_cmap	all cmap xml sessions
cmap-name-out	Type: string Name of the class-map
cmap-key	Type: string Class-map name: xml key
opt_any_or_all	Enter match-any or match-all **match-any value: 1** Logical-OR all match statements under this classmap **match-all value: 2** Logical-AND all match statements under this classmap
TABLE_match	all match xml sessions
match-key	Type: uinteger match count: xml key
access_grp	
acc_grp_name	Type: string
redirect	

opt_match_redirect	Match criteria for redirected packets **dhcp-snoop value: 3** Match redirected packets for dhcp **arp-inspect value: 6** Match redirected packets for arp-inspect
exception	

opt_match_excpt

Match criteria for exception packets

ip-option value: 1

Match exception packets for ip-options

ip-icmp-redirect value: 2

Match exception packets for ip-icmp-redirect

ip-icmp-unreachable value: 3

Match exception packets for ip-icmp-unreachable

urpf-failure value: 4

Match exception packets for urpf-failure

second-mrpf-failure value: 5

Match exception packets for second-mrpf-failure

ttl-failure value: 6

Match exception packets for ttl-failure

glean value: 7

Match exception packets for glean

ipv6-option value: 8

Match exception packets for ipv6-options

ipv6-icmp-redirect value: 9

Match exception packets for ipv6-icmp-redirect

ipv6-icmp-unreachable value: 10

Match exception packets for ipv6-icmp-unreachable

mtu-failure value: 11

Match exception packets for mtu-failure

multicast-rpf-failure value: 12

Match exception packets for multicast rpf-failure

multicast-directly-connected-sources value: 13

Match exception packets for multicast directly-connected-sources

ip-municast value: 14

Match exception packets for ip-municast

ipv6-municast value: 15

Match exception packets for ipv6-municast

fcoe-fib-miss value: 16

Match Exception Packets for FCoE FIB Miss

multicast-dest-miss value: 17

	Match Exception Packets for IP Multicast Destination Lookup Miss **multicast-sg-rpf-failure value: 18** Match exception packets for multicast sg rpf check failure
protocol	
opt_match_protocol	Match criteria for protocol packets **arp value: 1** IP ARP **mpls value: 13** Multi-protocol Label Switching **otv value: 17** OTV Overlay IS-IS frames **mpls_exp6 value: 18** MPLS Exp 6

Command Modes

- /exec

show class-map type network-qos

show class-map type network-qos [*cmap-name-nq*] [**__readonly__** *display-all desc xcmap-name cos-list qos-group-list protocol*]

Syntax Description

show	Show running system information
class-map	Show class maps
type	Type of the class-map
cmap-name-nq	Type: string antipattern: type | typ | ty | t | class-default | class | default length: 40 Class-map name
network-qos	type network-qos
__readonly__	
display-all	Type: integer Display all network-qos class-maps
desc	Type: string length: 200 Description string
xcmap-name	Type: string Class-map name
protocol	Type: integer protocol
cos-list	Type: integer-mrange List of class-of-service values
qos-group-list	Type: integer-mrange List of qos-group values

Command Modes

- /exec

show cli alias

show cli alias [**name** *s0*]

Syntax Description

show	Show running system information
cli	Show CLI information
alias	Display the alias configuration
name	Display a specific alias
s0	Type: string length: 30 Specify the alias

Command Modes

- /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
name	Type: string name of the dynamic parameter
__readonly__	
TABLE_dynamic_integers	
name-o	Type: string
min	Type: integer
max	Type: integer

Command Modes

- /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
name	Type: string name of the dynamic parameter
__readonly__	
TABLE_dynamic_strings	
name-o	Type: string
value	Type: string

Command Modes

- /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
count	Type: integer number of lines to display (from end)
unformatted	display just the commands
this-mode-only	display history from current mode only
exec-mode	display history of exec commands only
config-mode	display history of config commands only

Command Modes

- /exec

show cli interface table

show cli interface table

Syntax Description

show	show
cli	cli
interface	interface
table	table

Command Modes

- /exec

show cli list

show cli list [**detail**| **recurse**| *component*| *max-per-cmd*]+

Syntax Description

show	Show running system information
cli	Show CLI information

Command Modes

- /exec

show cli registry

show cli registry [**ctags**| **tags**| **modes**| **session**| **inherit**]

Syntax Description

show	Show running system information

Command Modes

- /exec

show cli syntax

show cli syntax [**long**| **recurse**| **has-xml-out**| **has-no-xml-out**]+ [**roles** [**network-admin**| **network-operator**| *roles-mask*]] [**has-xml-out**| **has-no-xml-out**]

Syntax Description

show	Show running system information
cli	Show CLI information

Command Modes

- /exec

show cli variables

show cli variables

Syntax Description

show	Show running system information
cli	Show CLI information
variables	Show CLI variables

Command Modes

- /exec

show clock

show clock [detail] [**__readonly__** *simple_time* [*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	Display current date and summertime configuration
__readonly__	
simple_time	Type: string simple clock format
daylight_zone	Type: string summer-time daylight zone
daylight_start_week	Type: integer daylight start week
daylight_start_weekday	Type: string daylight start weekday
daylight_start_month	Type: string daylight start month
daylight_start_time	Type: string daylight start time
daylight_end_week	Type: integer daylight end week
daylight_end_weekday	Type: string daylight end weekday
daylight_end_month	Type: string daylight end month
daylight_end_time	Type: string daylight end time

daylight_utc_min_offset	Type: integer daylight utc offset

Command Modes

- /exec

show clock utc

show clock utc

Syntax Description

show	Show running system information
clock	Display current Date
utc	Display current time in UTC

Command Modes

- /exec

show configuration session (ssnmgr)

show configuration session [**__readonly__** *ssn-name ssn-cmd-num command+ trlr*]

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
__readonly__	Read only
ssn-name	Type: string
ssn-cmd-num	Type: uinteger
command	Type: string
trlr	Type: string

Command Modes

- /exec

show configuration session (ssnmgr)

show configuration session *s3* [**__readonly__** *ssn-name ssn-cmd-num command*+]

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
s3	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* length: 64 Shows configuration session given a name
__readonly__	Read only
ssn-name	Type: string
ssn-cmd-num	Type: uinteger
command	Type: string

Command Modes

- /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__	Read only
max-ssns	Type: uinteger
max-cmds	Type: uinteger
curr-num-ssns	Type: uinteger
curr-num-cmds	Type: uinteger

Command Modes

- /exec

show configuration session status

show configuration session status [*s3*] [**__readonly__** *ssn-name last-action ac-tstamp ac-status ac-reason failed-cmd-num+ failed-cmd+ last-vfy-cmd-num last-vfy-cmd last-vfy-tstamp+ rollback-status+ trlr*]

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	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* length: 64 Shows configuration session status given a name
__readonly__	Read only
ssn-name	Type: string
last-action	Type: string
ac-tstamp	Type: string
ac-status	Type: string
ac-reason	Type: integer
failed-cmd-num	Type: integer
failed-cmd	Type: string
last-vfy-cmd-num	Type: integer
last-vfy-cmd	Type: string
last-vfy-tstamp	Type: string
rollback-status	Type: integer
trlr	Type: string

Command Modes

- /exec

show configuration session summary

show configuration session summary [**__readonly__** *hdr ssn-name username tstamp+ trlr*]

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__	Read only
hdr	Type: string
ssn-name	Type: string
username	Type: string
tstamp	Type: string
trlr	Type: string

Command Modes

- /exec

show consistency-checker forwarding ipv6show forwarding ipv6 inconsistency

show consistency-checker forwarding ipv6 [unicast] [**vrf** {*vrf-name*| **all_vrfs**}] [**module** {*module*| **all_modules**}]| **show forwarding ipv6 [unicast] inconsistency** [**vrf** {*vrf-name*| **all_vrfs**}] [**module** {*module*| **all_modules**}] [**__readonly__ TABLE_inconsistency** *idipv6 slotipv6* [*unitipv6*] *vrfipv6* [*ipv6addr*] [*ipv6prefix*] [*interfaceipv6*] *reasonipv6*]

Syntax Description

show	show
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
inconsistency	route inconsistency check
ipv6	ipv6
unicast	unicast
vrf	check routes for a specific VRF
vrf-name	Type: string VRF name
module	check routes for a specific module
module	Type: integer module number
all_modules	all module's
all_vrfs	all vrf's
__readonly__	
TABLE_inconsistency	
idipv6	Type: integer
slotipv6	Type: integer
unitipv6	Type: integer
vrfipv6	Type: vrf
ipv6addr	Type: ipv6addr

ipv6prefix	Type: ipv6prefix
interfaceipv6	Type: interface
reasonipv6	Type: string

Command Modes

- /exec

show consistency-checker forwardingshow forwarding inconsistency

show consistency-checker forwarding [**ip**| **ipv4**] **[unicast]** [**vrf** {*vrf-name*| **all_vrfs**}] [**module** {*module*| **all_modules**}]| **show forwarding** [**ip**| **ipv4**] **[unicast] inconsistency** [**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	ipv4
ipv4	ipv4
unicast	unicast
vrf	check routes for a specific VRF
vrf-name	Type: string VRF name
module	check routes for a specific module
module	Type: integer module number
all_modules	all module's
all_vrfs	all vrf's
__readonly__	
TABLE_inconsistency	
id	Type: integer
slot	Type: integer
unit	Type: integer
vrf	Type: vrf

ipaddr	Type: ipaddr
ipprefix	Type: ipprefix
interface	Type: interface
reason	Type: string

Command Modes

- /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	Port-channel number
ch-id	Type: interface Port-Channel name

Command Modes

- /exec

show copp diff profile profile2

show copp diff profile *profile_type* **[prior-ver] profile2** *profile_type2*

Syntax Description

show	Show running system information
copp	Control-Plane Policing
diff	Difference between CoPP Profiles
profile	CoPP Profile
profile_type	CoPP Profile Types **strict value: 1** The Strict Profile **moderate value: 2** The Moderate Profile **lenient value: 3** The Lenient Profile **dense value: 4** The Dense Profile
prior-ver	Previous Configured Version
profile2	CoPP Profile
profile_type2	CoPP Profile Types **strict value: 1** The Strict Profile **moderate value: 2** The Moderate Profile **lenient value: 3** The Lenient Profile **dense value: 4** The Dense Profile

Command Modes

- /exec

show copp profile

show copp profile {**strict**| **moderate**| **lenient**| **dense**} [**__readonly__** *acl-type acl-grp-name permitdeny* {*proto_str*| *proto*| *ip*| *ipv6*} {*src_any*| *src_ip_prefix*| *src_ip_addr src_ip_mask*| *src_ipv6_prefix*| *src_addrgrp*| *src_mac_any*| *src_mac_addr src_mac_mask*} [*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_addrgrp*| *dest_mac_any*| *dest_mac_addr dest_mac_mask*} [*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*}] *eth_proto newline cmap_name opt_any_or_all* {**access_grp** *acc_grp_name*| **redirect** *opt_match_redirect*| **exception** *opt_match_excpt* **protocol** *opt_match_protocol*}+ *pmap_name class-name 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**} {**cos [inner]** *cos-val*| **dscp [tunnel]** *dscp-val*| **precedence [tunnel1]** *prec-val policer_show_flags set_vld_flg*}+]

Syntax Description

show	Show running system information
copp	Control-Plane Policing
profile	CoPP Profile
strict	display strict profile
moderate	display moderate profile
lenient	display lenient profile
dense	display dense profile
__readonly__	Read Only
acl-type	Type: uinteger access-list type
acl-grp-name	Type: string name of the access-list
permitdeny	permit/deny **deny value: 1** acl rule deny **permit value: 2** acl rule permit

proto	Type: uinteger min: 0 max: 255 A protocol number
proto_str	Type: string Protocol name
ip	IP **ip value: 1** IP Protocol
ipv6	IPV6 **ipv6 value: 1** IPv6 Protocol
src_any	SRCAny **any value: 1** Any IP address
dest_any	DESTAny **any value: 1** Any IP address
src_ip_prefix	Type: ipprefix Source IP prefix
src_ip_addr	Type: ipaddr Source IP address
src_ip_mask	Type: ipaddr Source IP mask
src_ipv6_prefix	Type: ipv6prefix Source IPv6 prefix
src_mac_addr	Type: ethernet Source MAC address
src_mac_mask	Type: ethernet Source MAC mask

src_mac_any	SRCMACAny **any value: 1** ANY MAC address
dest_ip_prefix	Type: ipprefix Destination IP prefix
dest_ip_addr	Type: ipaddr Destination IP address
dest_ip_mask	Type: ipaddr Destination IP mask
dest_ipv6_prefix	Type: ipv6prefix Destination IPv6 prefix
dest_mac_addr	Type: ethernet Destination MAC address
dest_mac_mask	Type: ethernet Destination MAC mask
dest_mac_any	DESTMACAny **any value: 1** ANY MAC address
src_port_op	Source Port operator **lt value: 4** Match only packets with a lower port number **gt value: 5** Match only packets with a higher port number **eq value: 6** Match only packets with a equal port number **neq value: 7** Match only packets with a diff port number **range value: 8** Match only packets in range

dest_port_op	Destination Port operator **lt value: 4** Match only packets with a lower port number **gt value: 5** Match only packets with a higher port number **eq value: 6** Match only packets with a equal port number **neq value: 7** Match only packets with a diff port number **range value: 8** Match only packets in range
src_port1_str	Type: string Source port name
src_port1_num	Type: uinteger Source port number
src_port2_str	Type: string Source port name
src_port2_num	Type: uinteger Source port number
dest_port1_str	Type: string Destination port name
dest_port1_num	Type: uinteger Destination port number
dest_port2_str	Type: string Destination port name
dest_port2_num	Type: uinteger Destination port number
icmp_type	Type: uinteger ICMP type
icmp_code	Type: uinteger ICMP code

icmp_str	Type: string ICMP message
icmpv6_type	Type: uinteger ICMP type
icmpv6_code	Type: uinteger ICMP code
icmpv6_str	Type: string ICMP message
src_addrgrp	Type: string Source address group
dest_addrgrp	Type: string Destination address group
src_portgrp	Type: string Source port group
dest_portgrp	Type: string Destination port group
eth_proto	Type: hex MAC protocol number
newline	Type: string newline between access-list and cmaps
cmap_name	Type: string Name of the class-map
opt_any_or_all	Enter match-any or match-all **match-any value: 1** Logical-OR all match statements under this classmap **match-all value: 2** Logical-AND all match statements under this classmap
access_grp	
acc_grp_name	Type: string
redirect	

opt_match_redirect	Match criteria for redirected packets **dhcp-snoop value: 3** Match redirected packets for dhcp **arp-inspect value: 6** Match redirected packets for arp-inspect
exception	

opt_match_excpt

Match criteria for exception packets

ip-option value: 1

Match exception packets for ip-options

ip-icmp-redirect value: 2

Match exception packets for ip-icmp-redirect

ip-icmp-unreachable value: 3

Match exception packets for ip-icmp-unreachable

urpf-failure value: 4

Match exception packets for urpf-failure

second-mrpf-failure value: 5

Match exception packets for second-mrpf-failure

ttl-failure value: 6

Match exception packets for ttl-failure

glean value: 7

Match exception packets for glean

ipv6-option value: 8

Match exception packets for ipv6-options

ipv6-icmp-redirect value: 9

Match exception packets for ipv6-icmp-redirect

ipv6-icmp-unreachable value: 10

Match exception packets for ipv6-icmp-unreachable

mtu-failure value: 11

Match exception packets for mtu-failure

multicast-rpf-failure value: 12

Match exception packets for multicast rpf-failure

multicast-directly-connected-sources value: 13

Match exception packets for multicast directly-connected-sources

ip-municast value: 14

Match exception packets for ip-municast

ipv6-municast value: 15

Match exception packets for ipv6-municast

fcoe-fib-miss value: 16

Match Exception Packets for FCoE FIB Miss

multicast-dest-miss value: 17

	Match Exception Packets for IP Multicast Destination Lookup Miss **multicast-sg-rpf-failure value: 18** Match exception packets for multicast sg rpf check failure
protocol	
opt_match_protocol	Match criteria for protocol packets **arp value: 1** IP ARP **mpls value: 13** Multi-protocol Label Switching **otv value: 17** OTV Overlay IS-IS frames **mpls_exp6 value: 18** MPLS Exp 6
pmap_name	Type: string Name of the Policy-map
class-name	Type: string Name if the policy member
cir	Type: long Committed Information Rate in bps/kbps/mbps/gbps
opt_kbps_mbps_gbps_pps_cir	Units **pps value: 8** Packets per second
percent	
cir-perc	Type: long Percent specification for cir
pir	Type: long Peak Information Rate in bps/kbps/mbps/gbps

opt_kbps_mbps_gbps_pps_pir	Units **bps value: 1** Bits per second **kbps value: 2** Kilo Bits per second **mbps value: 3** Mega Bits per second **gbps value: 4** Giga Bits per second **pps value: 8** Packets per second
percent1	
pir-perc	Type: long Percent specification for pir
bc	Type: long Committed Information size in bytes/kbytes/mbytes/packets/ms/us
opt_kbytes_mbytes_gbytes_bc	Units **packets value: 8** Packets
be	Type: long Peak Information size in bytes/kbytes/mbytes/packets/ms/us

opt_kbytes_mbytes_gbytes_be	Units **bytes value: 1** Bytes **kbytes value: 2** Kilo Bytes **mbytes value: 3** Mega Bytes **packets value: 8** Packets **ms value: 5** Milli seconds **us value: 6** Micro seconds
opt_drop_transmit_conform	Set the action **transmit value: 1** Transmit the packet
set-cos-transmit	
set-cos-val	Type: uinteger Conform action cos val
set-dscp-transmit	
set-dscp-val	Type: uinteger Conform action dscp val
set-prec-transmit	
set-prec-val	Type: uinteger Conform action prec val
opt_drop_transmit_exceed	Set the action **drop value: 2** Drop the packet **transmit value: 1** Transmit the packet
set	

dscp1	
dscp2	
table	
cir-markdown-map	
opt_drop_transmit_violate	Set the action **drop value: 2** Drop the packet
set1	
dscp3	
dscp4	
table1	
pir-markdown-map	
cos	
inner	
cos-val	Type: uinteger Set cos val
dscp	
tunnel	
dscp-val	Type: uinteger Set dscp val
precedence	
tunnel1	
prec-val	Type: uinteger Set prec val
policer_show_flags	Type: uinteger Policer show flags
set_vld_flg	Type: uinteger Set valid flag

Command Modes

- /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
__readonly__	
last_config_operation	last config operation
last_cfg_oper	Type: string last config operation
last_config_operation_time	timestamp of last config operation
last_cfg_oper_time	Type: string timestamp of last config operation
last_config_operation_status	status of last config operation
last_cfg_oper_status	Type: string status of last config operation
last_config_operation_error_time	timestamp of last config operation's error
last_cfg_oper_error_time	Type: string timestamp of last config operation's error
last_config_operation_error	last config operation's error
last_cfg_oper_error	Type: string last config operation's error
service_policy	policy-map attached to control-plane
srv_policy	Type: string policy-map attached to control-plane

Command Modes

- /exec

show copyright

show copyright [**__readonly__** *content*]

Syntax Description

show	Show running system information
copyright	Copyright information
__readonly__	
content	Type: string Copyrigh information

Command Modes

- /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	show core dumps from all vdcs
vdc	show all core dumps for the vdc
__readonly__	
TABLE_cores	
vdc_id	Type: integer vdc id
module_id	Type: integer module id
instance	Type: integer instance number
process_name	Type: string name of the process
pid	Type: string process id
sys_time	Type: string core generate time
e-vdc2	Type: userdef Enter VDC <vdc-id>
vdc-id	Type: integer min: 1 max: 17 vdc number

Command Modes

- /exec

show crypto ca certificates (certen_tree)

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
s0	Type: string length: 64 trustpoint label
__readonly__	
Trustpoint	Trustpoint
trustpoint	Type: string Trustpoint
Certificate	Certificate
certificate	Type: string Certificate
TABLE_ca_cert_chains	Table of CA certificates in chain
index	Type: string CA Certificate Index
ca_certificate	Type: string CA certificate

Command Modes

- /exec

show crypto ca certificates (certen_tree)

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
__readonly__	
TABLE_ca_certificates	Table of CA certificates
trustpoint	Type: string Trustpoint name
certificate	Type: string Certificate
TABLE_ca_cert_chains	Table of CA certificates in chain
index	Type: string CA Certificate Index
ca_certificate	Type: string CA certificate

Command Modes

- /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__	
certstore_lookup	Certificate strore lookup
lookup_type	Type: string Lookup type

Command Modes

- /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	Type: string length: 64 trustpoint label
__readonly__	
Trustpoint	Trustpoint
trustpoint	Type: string Trustpoint
CRL	Certificate Revocation List
crl	Type: string Certificate Revocation List

Command Modes

- /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__	
remote_cert_store	Remote cert store
rem_cert_store	Type: string Remote certificate store
crl_timer	CRL timer
crltimer	Type: string CRL timer
ldap_server_group	LDAP Server Group
ldap_server_grp	Type: string LDAP Server Group

Command Modes

- /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
__readonly__	
trustpoint	Type: string Trustpoint
key-pair	Type: string Key pair
TABLE_revocation_methods	Table of revocation methods
revocation-method	Type: string Revocation mehtod
ocsp-url	Type: string OCSP URL
TABLE_ca_truspoints	Table of CA trustpoints

Command Modes

- /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
__readonly__	
TABLE_certmap	Table of Certificate Map
map_name	Type: string Map name
subject_name	Type: string Subject name
alternate_email	Type: string Alternate Email
alternate_upn	Type: string Alternate UPN

Command Modes

- /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
__readonly__	
TABLE_rsa_keys	Table of RSA keys
key_label	Type: string Key Lable
key_size	Type: string Key size
exportable	Type: string Exportable
err_string	Type: string Error String

Command Modes

- /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__	
TABLE_ssh_auth_map	Table of SSH Auth MAP
issuer_name	Type: string Issuer Name
map1	Type: string Map 1
map2	Type: string Map 2

Command Modes

- /exec

show current

show current

Syntax Description

show	Display region configurations
current	Display mst configuration currently used

Command Modes

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

D Show Commands

- show default-interface log, page 290
- show diagnostic bootup level, page 291
- show diagnostic content module, page 292
- show diagnostic events, page 294
- show diagnostic ondemand setting, page 295
- show diagnostic result module all, page 296
- show diagnostic simulation module, page 299
- show diagnostic status module, page 300
- show diff rollback-patch, page 302
- show dot1q-tunnel, page 304
- show dot1q-tunnel interface, page 305

show default-interface log

show default-interface log

Syntax Description

show	Show running system information
default-interface	Current default-interface configuration
log	Displays execution log of last default-interface command

Command Modes

- /exec

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__	
bootup_level	Type: string Bootup level

Command Modes

- /exec

show diagnostic content module

show diagnostic content module {**all**| *module*} [**__readonly__** *attr_descr* **TABLE_module** *module_id module_type* **TABLE_test** *test_id testname test_attr test_interval*]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
content	Show diagnostic test content
module	Module Keyword
all	Select all module ID
module	Type: integer-mrange Module number
__readonly__	
attr_descr	Type: string Attribute description
TABLE_module	All modules table
module_id	Type: integer Module Number
module_type	Type: string module type description
TABLE_test	All tests table
test_id	Type: integer Test id
testname	Type: string Test name
test_attr	Type: string Test Attribute
test_interval	Type: string HM test interval

Command Modes

- /exec

show diagnostic events

show diagnostic events [**error**| **info**]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
events	Diagnostic events
error	Error event-type
info	Information event-type

Command Modes

- /exec

show diagnostic ondemand setting

show diagnostic ondemand setting [**__readonly__** *test_iteration_count action_on_failure*]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
ondemand	Show diagnostic on demand information
setting	Show diagnostic on demand settings
__readonly__	
test_iteration_count	Type: integer Iteration Count
action_on_failure	Type: string Action on failure

Command Modes

- /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 consequtive_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	Detailed result
__readonly__	
TABLE_Module	Table of modules
module_id	Type: integer Module ID
curr_diag_level	Type: string Current diag level
module_name	Type: string Module name
bootup_diag_level	Type: string Diagnostic level at bootup
TABLE_Test	Table of tests in module
test_id	Type: integer Test id of tests
testname	Type: string Test name
testresult	Type: string Test Results

passed_ports	Type: string List passed ports
failed_ports	Type: string List failed ports
incomplete_ports	Type: string List of Imcompletly tested ports
untested_ports	Type: string List of untested ports
aborted_ports	Type: string List of aborted ports
err_disabled_ports	Type: string List error disabled ports
err_code	Type: string Error code
total_run_count	Type: integer Total run count
last_execution_time	Type: string Last execution time
first_failure_time	Type: string First test failure time
last_failure_time	Type: string Last test failure time
last_pass_time	Type: string Last test pass time
total_fail_count	Type: integer Total fail count
consequtive_fail_count	Type: integer Consequetive failure count
last_fail_reason	Type: string Last failure reason

next_execution_time	Type: string Next test execution time

Command Modes

- /exec

show diagnostic simulation module

show diagnostic simulation module *module* [**__readonly__** *module_id module_name* [**TABLE_detail** *serial_no testid* [*portid*] *mode*]]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
simulation	Simulating Diagnostic result
module	Module keyword
module	Type: integer min: 0 max: 30 Module Number
__readonly__	
module_id	Type: integer Module ID
module_name	Type: string Module Name
TABLE_detail	Table of simulation details
serial_no	Type: integer serial no
testid	Type: integer Test id
portid	Type: integer Port id
mode	Type: string Simulation mode

Command Modes

- /exec

show diagnostic status module

show diagnostic status module *module* [**__readonly__** *test_runby_mapping module_id module_name* **TABLE_current** *cur_test_name cur_run_by* **TABLE_enqued** *enq_test_name enq_run_by*]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
status	Show test status(running/enqueued)
module	Module keyword
module	Type: integer min: 0 max: 30 Module number
__readonly__	
test_runby_mapping	Type: string Test type expansion
module_id	Type: integer Module Id
module_name	Type: string Module name
TABLE_current	Table of currently running test
cur_test_name	Type: string Currently running test
cur_run_by	Type: string Test Run By
TABLE_enqued	Table of enqueued tests
enq_test_name	Type: string Enqueued test name
enq_run_by	Type: string Test enqueued by

Command Modes

- /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
chkpoint_name	Type: string length: 80 Checkpoint name
src-running-cfg	Use running configuration as source
src-startup-cfg	Use startup configuration as source
src-file	Src Checkpoint file
srcfile_uri	Type: uri Src Checkpoint file path
dst-checkpoint	Use checkpoint as destination configuration
chkpoint_name	Type: string length: 80 Checkpoint name
dst-running-cfg	Use running configuration as destination
dst-startup-cfg	Use startup configuration as destination
dst-file	Dst Checkpoint file
dstfile_uri	Type: uri Src Checkpoint file path
__readonly__	Read only

patch_entry	Type: string length: 256 rollback patch entry

Command Modes

- /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__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface

Command Modes

- /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
ifid_eth_dot1q_tunnel	Type: interface-mrange Enter interface type and number in module/slot format
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface

Command Modes

- /exec

E Show Commands

- show eigrp, page 309
- show eigrp accounting, page 312
- show eigrp event, page 314
- show eigrp interfaces, page 316
- show eigrp metric, page 319
- show eigrp sia-event, page 321
- show eigrp sia-statistics, page 323
- show eigrp timers, page 324
- show eigrp traffic, page 325
- show email, page 327
- show encryption service stat, page 328
- show environment, page 329
- show environment fex, page 337
- show eol status, page 341
- show errdisable, page 342
- show errdisable flap, page 346
- show event-history, page 347
- show event-history xbar, page 348
- show event manager environment, page 349
- show event manager event-types, page 350
- show event manager events action-log, page 351
- show event manager history events, page 352
- show event manager policy-state, page 353
- show event manager script system, page 354

- show event manager system-policy, page 355

show eigrp

show {**ip**| **ipv6**} **eigrp** [*eigrp-ptag*] **[detail]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_asn** *asn* **TABLE_vrf** *vrf router_id shutdown authen_md5 authen_keychain metric_weight_k1 metric_weight_k2 metric_weight_k3 metric_weight_k4 metric_weight_k5 metric_weight_k6 metric_ribscale metric_delayacc metric_version eigrp_proto multicast_group multicast_groupv6 int_distance ext_distance max_paths num_interfaces num_lo_interfaces num_pass_interfaces num_peers* [**TABLE_redist** *redist_srcproto redist_routemap*] *graceful_restart stub_configured stub_option_connected stub_option_summary stub_option_redist stub_option_leak_map stub_option_receive_only*]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
detail	Show detailed EIGRP process stats
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
__readonly__	

TABLE_asn	
asn	Type: uinteger
TABLE_vrf	
vrf	Type: string
router_id	Type: ipaddr
shutdown	Type: bool
authen_md5	Type: bool
authen_keychain	Type: string
metric_weight_k1	Type: uinteger
metric_weight_k2	Type: uinteger
metric_weight_k3	Type: uinteger
metric_weight_k4	Type: uinteger
metric_weight_k5	Type: uinteger
metric_weight_k6	Type: uinteger
metric_ribscale	Type: uinteger
metric_delayacc	Type: uinteger
metric_version	Type: string
eigrp_proto	Type: uinteger
multicast_group	Type: ipaddr
multicast_groupv6	Type: ipv6addr
int_distance	Type: uinteger
ext_distance	Type: uinteger
max_paths	Type: uinteger
num_interfaces	Type: uinteger
num_lo_interfaces	Type: uinteger
num_pass_interfaces	Type: uinteger
num_peers	Type: uinteger

TABLE_redist	
redist_srcproto	Type: string
redist_routemap	Type: string
graceful_restart	Type: bool
stub_configured	Type: bool
stub_option_connected	Type: bool
stub_option_summary	Type: bool
stub_option_redist	Type: bool
stub_option_leak_map	Type: bool
stub_option_receive_only	Type: bool

Command Modes

- /exec

show eigrp accounting

show {**ip**| **ipv6**} **eigrp** [*eigrp-ptag*] **accounting** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** **TABLE_asn** *asn* **TABLE_vrf** *vrf router_id 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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
accounting	IP-EIGRP Accounting
__readonly__	
TABLE_asn	
asn	Type: uinteger

TABLE_vrf	
vrf	Type: string
router_id	Type: ipaddr
total_prefix	Type: uinteger
redist_state	**adjacency value: 1** **pending value: 2** **down value: 3**
redist_count	Type: uinteger
restart_count	Type: uinteger
acct_timer	Type: uinteger
TABLE_peer	
p_ipaddr	Type: ipaddr
p_ipv6addr	Type: ipv6addr
p_state	**adjacency value: 1** **pending value: 2** **down value: 3**
p_ifname	Type: interface
p_prefix_count	Type: uinteger
p_restart_count	Type: uinteger
p_acct_timer	Type: uinteger

Command Modes

- /exec

show eigrp event

show {**ip**| **ipv6**} **eigrp** [*eigrp-ptag*] **event** [*start-num end-num*] **[type]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
event	IP-EIGRP Events
start-num	Type: uinteger min: 1 max: 0 Starting event number
end-num	Type: uinteger min: 1 max: 0 Ending event number

type	Show Events being logged

Command Modes

- /exec

show 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*]]]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
interfaces	IP-EIGRP interfaces
detail	Show detailed interface information

interface	Type: interface Interface
brief	Show summary information only
__readonly__	
TABLE_asn	
asn	Type: uinteger
TABLE_vrf	
vrf	Type: string
TABLE_if	
ifname	Type: interface
peer_count	Type: uinteger
xmitq_unrel	Type: uinteger
xmitq_rel	Type: uinteger
mean_srtt	Type: uinteger
send_intvl_unrel	Type: uinteger
send_intvl_rel	Type: uinteger
mcast_flow_delay	Type: uinteger
pending_routes	Type: uinteger
hello_intvl	Type: uinteger
holdtime_intvl	Type: uinteger
next_xmit_serno	Type: uinteger
packetize_pending	Type: bool
mcasts_sent_unrel	Type: uinteger
mcasts_sent_rel	Type: uinteger
ucasts_sent_unrel	Type: uinteger
ucasts_sent_rel	Type: uinteger
mcast_exceptions	Type: uinteger
cr_packets	Type: uinteger

acks_suppressed	Type: uinteger
retrans_sent	Type: uinteger
out_of_seq_rcvd	Type: uinteger
stub_interface	Type: bool
nexthop_self	Type: bool
auth_mode_md5	Type: bool
auth_key_chain	Type: string

Command Modes

- /exec

show eigrp metric

show {**ip**| **ipv6**} **eigrp** [*eigrp-ptag*] **metric** *bw delay* [*rel*] [*load*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
metric	Compute composite metric from vector metric
bw	Type: uinteger min: 1 max: 0 Bandwidth in Kbits per second
delay	Type: uinteger min: 0 max: 0 Delay metric

rel	Type: uinteger min: 0 max: 255 Reliability metric where 255 is 100% reliable
load	Type: uinteger min: 1 max: 255 Effective bandwidth metric (Loading) where 255 is 100% loaded

Command Modes

- /exec

show eigrp sia-event

show {**ip**| **ipv6**} **eigrp** [*eigrp-ptag*] **sia-event** [*start-num end-num*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
sia-event	IP-EIGRP SIA event
start-num	Type: uinteger min: 1 max: 0 Starting event number
end-num	Type: uinteger min: 1 max: 0 Ending event number

Command Modes

- /exec

show eigrp sia-statistics

show {**ip**| **ipv6**} **eigrp** [*eigrp-ptag*] **sia-statistics** [*peer*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
sia-statistics	IP-EIGRP SIA Statistics
peer	Type: ipaddr Peer ID to display information about

Command Modes

- /exec

show eigrp timers

show {**ip**| **ipv6**} **eigrp** [*eigrp-ptag*] **timers** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
timers	IP-EIGRP Timers

Command Modes

- /exec

show 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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
traffic	IP-EIGRP Traffic Statistics
__readonly__	
TABLE_asn	
asn	Type: uinteger

TABLE_vrf	
vrf	Type: string
hellos_sent	Type: uinteger
hellos_rcvd	Type: uinteger
updates_sent	Type: uinteger
updates_rcvd	Type: uinteger
queries_sent	Type: uinteger
queries_rcvd	Type: uinteger
replies_sent	Type: uinteger
replies_rcvd	Type: uinteger
acks_sent	Type: uinteger
acks_rcvd	Type: uinteger
max_inqueue_depth	Type: uinteger
inqueue_drops	Type: uinteger
sia_queries_sent	Type: uinteger
sia_queries_rcvd	Type: uinteger
sia_replies_sent	Type: uinteger
sia_replies_rcvd	Type: uinteger

Command Modes

- /exec

show email

show email [**__readonly__** [*ipv4*] [*ipv6*] [*host*] [*port*] [*reply*] [*from*] [*vrfname*]]

Syntax Description

show	Show running system information
email	Pipe email configuration
__readonly__	
ipv4	Type: ipaddr
ipv6	Type: ipv6addr
host	Type: string
port	Type: uinteger
reply	Type: string
from	Type: string
vrfname	Type: vrf

Command Modes

- /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	Encrytpin service status
__readonly__	
encryptionService	Encryption service status **enabled value: 0** **disabled value: 1**
MasterKeyEncryption	Master key status **not configured value: 0** **configured value: 1**
Type6Encryption	Is type 6 encryption used? **not being used value: 0** **being used value: 1**

Command Modes

- /exec

show environment

show environment [**clock**| **fan [detail]**| **power [detail] [ampere]**| **temperature** [**module** *module*| *s0 santa-cruz-range*]] [**__readonly__ TABLE_clockinfo** *clockname clkmodel clkhwver clkstatus act_standby* **fandetails** *fan_filter_status* **TABLE_faninfo** *fanname fanmodel fanhwver fandir fanstatus failfanlet* **TABLE_fan_zone_speed** *zone speed* **TABLE_fantray** *fanname fannum fandir fanperc fanrpm* **powersup** *voltage_level* **TABLE_psinfo** *psnum psmodel actual_out actual_input tot_capa ps_status* **TABLE_mod_pow_info** *modnum mod_model actual_draw allocated modstatus* **power_summary** *ps_redun_mode ps_oper_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 available_pow* **powersup_detail** *reserve_sup reserve_xbar reserve_fan reserve_supxbarfan pow_used_by_mods* **TABLE_tempinfo** *tempmod sensor majthres minthres curtemp alarmstatus*]

Syntax Description

show	Show running system information
environment	system environment information
clock	Chassis Clock information
fan	Fan information
power	Power capacity and power distribution information
detail	Detail Fan-tray information when used with Fan. Detail Power capacity and power distribution information when used with Power
ampere	Ampere Power capacity and power distribution information
temperature	temperature sensor information
module	enter a module number
module	Type: integer please enter the module number
s0	Type: xbar-str xbar
santa-cruz-range	Type: integer please enter the xbar number
__readonly__	
TABLE_clockinfo	Environment Clock
clockname	Type: string Clock Instance (A or B)

clkmodel	Type: string Model number of clock
clkhwver	Type: string Hardware version of the clock
clkstatus	Present/Absent Status of the clock **None value: 0** **Ok value: 1** **Failure value: 2** **Absent value: 3** **NotSupported value: 4**
act_standby	Active/Standby Status of clock **Active value: 0** **Standby value: 1** **None value: 2**
fandetails	Environment Fan
fan_filter_status	Present/Absent Status of fan filter **Absent value: 0** **Present value: 1** **NotSupported value: 2**
TABLE_faninfo	Fan Info
fanname	Type: string Fan Instance
fanmodel	Type: string Model number of fan
fanhwver	Type: string Hardware version of the fan

fandir	Air-flow direction of the fan-tray **back-to-front value: 1** **front-to-back value: 0** **none value: 2**
fanstatus	Present/Absent Status of the fan **None value: 0** **Ok value: 1** **Failure value: 2** **Absent value: 3** **Shutdown value: 4**
TABLE_fan_zone_speed	Fan Zone Speeds
zone	Type: string Zone Number
speed	Type: string Zone Speed
failfanlet	Type: string failed fanlet number
TABLE_fantray	Fan Tray Details table
fanname	Type: string Fan Tray Instance
fannum	Type: string Fan number in the tray
fandir	Air-flow direction of the fan-tray **back-to-front value: 1** **front-to-back value: 0** **none value: 2**

fanperc	Type: string FAN Speed percentage
fanrpm	Type: string FAN Speed RPM
powersup	Environment Power
voltage_level	Type: uinteger Voltage Level
TABLE_psinfo	Power Supply Info
psnum	Type: uinteger Power Supply Number
psmodel	Type: string Power Supply Model
actual_out	Type: string Actual Output
actual_input	Type: string Actual Input
tot_capa	Type: string Total Capacity
ps_status	Power Supply Status **None value: 0** **Ok value: 1** **Fail/Shut value: 2** **Absent value: 3** **Shutdown value: 4**
TABLE_mod_pow_info	Module Power Info
modnum	Type: string Module number
mod_model	Type: string Model ProductID number

actual_draw	Type: string Actual Draw
allocated	Type: string Power allocated
modstatus	Module Status **Powered-Up value: 1** **Powered-Dn value: 2** **Pwr-Denied value: 3** **Err-Pwd-Dn value: 4** **Absent value: 5** **Present value: 6** **Failure value: 10** **Pwr-Cycld value: 8**
power_summary	Power Usage Summary
ps_redun_mode	Mode: Redundant or Non-redundant **Non-Redundant(combined) value: 0** **Redundant value: 1** **Combined(obsolete) value: 2** **Non-Redundant value: 3** **InSrc-Redundant value: 4** **PS-Redundant value: 5**

ps_oper_mode	Operational Mode **Non-Redundant(combined) value: 0** **Redundant value: 1** **Combined(obsolete) value: 2** **Non-Redundant value: 3** **InSrc-Redundant value: 4** **PS-Redundant value: 5**
tot_pow_capacity	Type: string Total Power Capacity
tot_gridA_capacity	Type: string Total Grid-A Capacity
tot_gridB_capacity	Type: string Total Grid-B Capacity
cumulative_power	Type: string Total Power of all Inputs
tot_pow_out_actual_draw	Type: string Total Power Output, Actuals
tot_pow_input_actual_draw	Type: string Total Power Input, Actuals
tot_pow_alloc_budgeted	Type: string Total Power Allocated/budgeted
available_pow	Type: string Remaining Power Available
powersup_detail	PowerSupply Details
reserve_sup	Type: string Power reserved for Supervisors
reserve_xbar	Type: string Power reserved for Xbars

reserve_fan	Type: string Power reserved for Fans
reserve_supxbarfan	Type: string Total Power reserved for Sups,Xbars,Fans
pow_used_by_mods	Type: string Power currently used by Modules
TABLE_tempinfo	Environment Temperature
tempmod	Type: string Module
sensor	Type: string Sensor name
majthres	Type: string Major Threshold
minthres	Type: string Minor Threshold
curtemp	Type: string Current temperature

alarmstatus	Alarm Status **Failure value: 0** **AccessFailure value: 18** **Ok value: 1** **MinorAlarm value: 2** **MajorAlarm value: 3** **MinorAlarm value: 4** **Ok value: 5** **MajorAlarm value: 6** **MinorAlarm value: 7** **MajorAlarm value: 8** **Ok value: 9** **NotPresent value: 10**

Command Modes

- /exec

show environment fex

show environment fex {**all**| *i*} [**temperature**| **power**| **fan**] [**__readonly__ fandetails** *fan_filter_status* **TABLE_faninfo** *fanfex fanname fanmodel fanhwver fanstatus* **powersup** *voltage_level* **TABLE_psinfo** *psfex psnum psmodel watts amps ps_status* **TABLE_mod_pow_info** *modfex modnum mod_model watts_requested amps_requested watts_alloced amps_alloced modstatus* **power_summary** *powfex ps_redun_mode tot_pow_capacity reserve_sup pow_used_by_mods available_pow* **TABLE_tempinfo** *tempfex tempmod sensor majthres minthres curtemp alarmstatus*]

Syntax Description

show	Show running system information
environment	system environment information
fex	Show fex environment information
all	Show information for all FEX
i	Type: integer min: 100 max: 199 Enter FEX identifier
temperature	temperature sensor information
power	power capacity and power distribution information
fan	Fan information
__readonly__	
fandetails	Environment Fan
fan_filter_status	Present/Absent Status of fan filter **Absent value: 0** **Present value: 1** **NotSupported value: 2**
TABLE_faninfo	Fan Info
fanfex	Type: uinteger Fex
fanname	Type: string Fan Instance

fanmodel	Type: string Model number of fan
fanhwver	Type: string Hardware version of the fan
fanstatus	Type: string Present/Absent Status of the fan
powersup	Environment Power
voltage_level	Type: uinteger Voltage Level
TABLE_psinfo	Power Supply Info
psfex	Type: uinteger Fex
psnum	Type: uinteger Power Supply Number
psmodel	Type: string Power Supply Model
watts	Type: string Power in Watts
amps	Type: string Power in Amps
ps_status	Type: string Power Supply Status
TABLE_mod_pow_info	Module Power Info
modfex	Type: uinteger Fex
modnum	Type: string Module number
mod_model	Type: string Model ProductID number

watts_requested	Type: string Power requested in Watts
amps_requested	Type: string Power requested in Amps
watts_alloced	Type: string Power allocated in Watts
amps_alloced	Type: string Power allocated in Amps
modstatus	Type: string Module Status
power_summary	Power Usage Summary
powfex	Type: uinteger Fex
ps_redun_mode	Type: string Mode: Redundant or Non-redundant
tot_pow_capacity	Type: string Total Power Capacity
reserve_sup	Type: string Power reserved for Supervisors
pow_used_by_mods	Type: string Power currently used by Modules
available_pow	Type: string Total Power Available
TABLE_tempinfo	Environment Temperature
tempfex	Type: uinteger Fex
tempmod	Type: string Module
sensor	Type: string Sensor name

majthres	Type: string Major Threshold
minthres	Type: string Minor Threshold
curtemp	Type: string Current temperature
alarmstatus	Type: string Alarm Status

Command Modes

- /exec

show eol status

show eol status

Syntax Description

show	Show running system information

Command Modes

- /exec

show errdisable

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__	Read Only
TABLE_errdisable	show errdisable

cause

errdisable cause

link-flap value: 0

link-flap

udld value: 1

udld

bpduguard value: 2

bpduguard

loopback value: 3

loopback

storm-ctrl value: 4

storm-ctrl

dhcp-rate-lim value: 5

dhcp-rate-lim

arp-inspection value: 6

arp-inspection

sec-violation value: 7

sec-violation

psec-violation value: 8

psec-violation

vpc-peerlink value: 9

vpc-peerlink

port-state-failed value: 10

port-state-failed

event-debug value: 11

event-debug

event-debug1 value: 12

event-debug1

event-debug2 value: 13

event-debug2

event-debug3 value: 14

event-debug3

event-debug4 value: 15

event-debug4

ip-addr-conflict value: 16

	ip-addr-conflict **ipqos-mgr-error value: 17** ipqos-mgr-error **ethpm value: 18** ethpm **ipqos-compat-failure value: 19** ipqos-compat-failure **syserr based value: 20** syserr based **CMM miscabling value: 21** CMM miscabling
state	Type: string Interface state
time_interval	Type: integer err revovery time interval

Command Modes

- /exec

show errdisable flap

show errdisable flap

Syntax Description

show	Show running system information
errdisable	Error disable
flap	linkstate flapping

Command Modes

- /exec

show event-history

show event-history

Syntax Description

show	Show running system information
event-history	show switch wide event history configuration

Command Modes

- /exec

show event-history xbar

show event-history xbar

Syntax Description

show	Show running system information
event-history	show switch wide event history configuration
xbar	Show all event-history debugging flags of xbar

Command Modes

- /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
varname	Type: string length: 029 The environment variable name on which information is required
__readonly__	
environment-details	Type: string

Command Modes

- /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	Show information about advanced event types as well
event-type-name	Type: string Show information about the specified event type
module	Show information about event types on other modules
module-id	Type: integer
__readonly__	
event-types	Type: string

Command Modes

- /exec

show event manager events action-log

show event manager events action-log [**policy** *policy-name*| **event-type** *event-type-name*]

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	Name of policy
policy-name	Type: string length: 029 Enter policy name
event-type	Name of event
event-type-name	Type: string length: 029 Enter event type

Command Modes

- /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	Show information about the event parameters as well
maximum	Specify an upper limit on the number of events to be shown
n-events	Type: uinteger min: 1 max: 500 Specify the maximum number of events to be shown
severity	Show only those events whose severity is >= specified severity
sev	Enter the severity threshold **minor value: 1** **moderate value: 2** **severe value: 3** **catastrophic value: 4**
__readonly__	
history-events	Type: string

Command Modes

- /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
name	Type: string length: 029 Name of the policy
module	Get the information from a module
module-id	Type: integer
__readonly__	
policy-state	Type: string

Command Modes

- /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
script-name	Type: string Name of the system script policy
__readonly__	
script_system_details	Type: string

Command Modes

- /exec

show event manager system-policy

show event manager system-policy [**all**| *policy-name*] [**__readonly__** *sys-pol-details*]

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
system-policy	Show information about default system policies
all	Show all policies (including advanced and non-overridable ones)
policy-name	Type: string Show detailed information about the specified policy
__readonly__	
sys-pol-details	Type: string

Command Modes

- /exec

F Show Commands

- show fabricpath counters dropped, page 360
- show fabricpath load-balance, page 361
- show fabricpath load-balance multicast ftag-selected flow-type, page 362
- show fabricpath load-balance unicast forwarding-path ftag switchid flow-type, page 365
- show fabricpath topology, page 368
- show fabricpath topology interface, page 369
- show fabricpath topology interface vlan, page 370
- show fabricpath topology vlan, page 371
- show feature, page 372
- show feature-set, page 373
- show feature-set services, page 375
- show fex (satmgr), page 376
- show fex (satmgr), page 379
- show fex detail, page 383
- show fex transceiver, page 386
- show fex version, page 387
- show file, page 388
- show fips status, page 389
- show forwarding, page 390
- show forwarding adjacency, page 394
- show forwarding bypass-hardware, page 397
- show forwarding capture, page 398
- show forwarding distribution, page 399
- show forwarding distribution capture, page 400

- show forwarding distribution clients, page 401
- show forwarding distribution fib-state, page 402
- show forwarding distribution ip igmp snooping, page 404
- show forwarding distribution ipv6 multicast route, page 406
- show forwarding distribution l2 multicast, page 409
- show forwarding distribution lisp counters, page 411
- show forwarding distribution lisp vrf enabled, page 412
- show forwarding distribution logging, page 413
- show forwarding distribution multicast (mfdm), page 414
- show forwarding distribution multicast (mfdm), page 415
- show forwarding distribution multicast client-ack-db, page 416
- show forwarding distribution multicast client, page 417
- show forwarding distribution multicast outgoing-interface-list, page 418
- show forwarding distribution multicast resp-ack-timer-msgs, page 420
- show forwarding distribution multicast route, page 421
- show forwarding distribution otv multicast route, page 424
- show forwarding distribution peer-id, page 426
- show forwarding distribution trace, page 427
- show forwarding ecmp, page 428
- show forwarding ecmp recursive, page 430
- show forwarding file-log disable, page 432
- show forwarding file-log enable, page 433
- show forwarding interfaces, page 434
- show forwarding ipv6, page 435
- show forwarding ipv6 adjacency, page 438
- show forwarding ipv6 multicast route, page 440
- show forwarding ipv6 pss route, page 443
- show forwarding l2 multicast, page 444
- show forwarding l2vpn ipv6 multicast route, page 446
- show forwarding l2vpn label vpls, page 447
- show forwarding l2vpn label xconnect, page 448
- show forwarding l2vpn multicast outgoing-interface-list, page 449
- show forwarding l2vpn multicast route, page 450

- show forwarding l2vpn service vpls, page 451
- show forwarding l2vpn service xconnect, page 453
- show forwarding l2vpn vlan, page 454
- show forwarding mpls, page 455
- show forwarding mpls aggregate, page 457
- show forwarding mpls cbts, page 458
- show forwarding mpls ecmp, page 459
- show forwarding mpls summary, page 461
- show forwarding mpls te, page 462
- show forwarding multicast outgoing-interface-list, page 464
- show forwarding multicast route, page 465
- show forwarding otv, page 469
- show forwarding otv ipv6 multicast route, page 470
- show forwarding otv multicast outgoing-interface-list, page 474
- show forwarding otv multicast route, page 476
- show forwarding otv vlan, page 477
- show forwarding pss route, page 478
- show forwarding restart, page 479
- show forwarding security group-tag, page 480
- show forwarding security mac, page 482
- show forwarding trace, page 484
- show forwarding trace profile, page 485
- show forwarding trace profile funcstats, page 486

show fabricpath counters dropped

show fabricpath counters dropped [**module** *module*] [**__readonly__** *mod_bmp vdc_id msg is_brief*]

Syntax Description

show	Show running system information
fabricpath	fabricpath information
counters	Show fabricpath counters
dropped	Packets dropped due to various vlan errors
module	Specify one module
module	Type: integer Module number
__readonly__	Read Only
mod_bmp	Type: uinteger Bitmap of valid modules
vdc_id	Type: integer Current VDC id
msg	Type: string Message to give details about command execution
is_brief	Type: bool Show summary for all modules or show counter for each module instance

Command Modes

- /exec

show fabricpath load-balance

show fabricpath load-balance [**__readonly__** *is_mcast algo* [*pref*] *rotate_amount use_vlan xor_warn*]

Syntax Description

show	Show running system information
fabricpath	fabricpath information
load-balance	Show FabricPath load-balance information
__readonly__	Read Only
is_mcast	Type: uinteger Is mcast config
algo	Type: uinteger Hash type used
pref	Type: uinteger Layer preference
rotate_amount	Type: uinteger Rotate ammount
use_vlan	Type: uinteger Use VLAN in hash
xor_warn	Type: string XOR Warning

Command Modes

- /exec

showfabricpathload-balancemulticastftag-selectedflow-type

show fabricpath load-balance multicast ftag-selected flow-type {**l2** {**dst-mac** *dst-mac*| **src-mac** *src-mac*}+ **ether-type** *ether-type*| **l3** {**dst-ip** *dst-ip*| **src-ip** *src-ip*| **dst-ipv6** *dst-ipv6*| **src-ipv6** *src-ipv6*}+| **l4** {**l4-src-port** *l4-src-port*| **l4-dst-port** *l4-dst-port*}+ [**dst-ip** *dst-ip*| **src-ip** *src-ip*| **dst-ipv6** *dst-ipv6*| **src-ipv6** *src-ipv6*| **l4-src-port** *l4-src-port*| **l4-dst-port** *l4-dst-port*]+} **vlan** *vlan* **module** *mod-no* [**__readonly__** *cmd_string is_dce_module*]

Syntax Description

show	Show running system information
fabricpath	fabricpath information
load-balance	Show FabricPath load-balance information
multicast	Show FabricPath multicast load-balance infomation
ftag-selected	ftag information
module	Ingress module at Fabricpath edge
mod-no	Type: uinteger module number
flow-type	indicate flow type as L2 or L3 or L4
l4	indicate Layer 4 flow
l3	indicate Layer 3 flow
l2	indicate Layer 2 flow
dst-mac	Destination MAC Address
dst-mac	Type: ethernet Mac Address
src-mac	Source MAC Address
src-mac	Type: ethernet Mac Address
vlan	Virtual LAN
vlan	Type: uinteger VLAN id
ether-type	Ether Type

ether-type	Type: uinteger Ether Type id
dst-ip	Destination IPv4 address
dst-ip	Type: ipaddr Destination IP address in format i.i.i.i
src-ip	Source IPv4 address
src-ip	Type: ipaddr Source IP address in format i.i.i.i
dst-ipv6	Destination IPv6 address
dst-ipv6	Type: ipv6addr Destination IPv6 address in format i:i:i:i:i:i
src-ipv6	Source IPv6 address
src-ipv6	Type: ipv6addr Source IPv6 address in format i:i:i:i:i:i
l4-src-port	Source L4 port
l4-src-port	Type: integer min: 0 max: 65535 L4 port number
l4-dst-port	Destination l4 port
l4-dst-port	Type: integer min: 0 max: 65535 L4 port number
__readonly__	Read Only
cmd_string	Type: string Command String
is_dce_module	Type: bool Whether Module is DCE

Command Modes

- /exec

- /exec

show fabricpath load-balance unicast forwarding-path ftag switchid flow-type

show fabricpath load-balance unicast forwarding-path ftag *ftag* **switchid** *swid* **flow-type** {**l2** {**dst-mac** *dst-mac*| **src-mac** *src-mac*}+ **ether-type** *ether-type*| **l3** {**dst-ip** *dst-ip*| **src-ip** *src-ip*| **dst-ipv6** *dst-ipv6*| **src-ipv6** *src-ipv6*}+| **l4** {**l4-src-port** *l4-src-port*| **l4-dst-port** *l4-dst-port*}+ [**dst-ip** *dst-ip*| **src-ip** *src-ip*| **dst-ipv6** *dst-ipv6*| **src-ipv6** *src-ipv6*| **l4-src-port** *l4-src-port*| **l4-dst-port** *l4-dst-port*]+} [**vlan** *vlan*] **module** *mod-no* [**__readonly__** *cmd_string is_dce_module*]

Syntax Description

show	Show running system information
fabricpath	fabricpath information
load-balance	Show FabricPath load-balance information
unicast	Show FabricPath unicast load-balance information
forwarding-path	forwarding-path
module	Ingress module
mod-no	Type: uinteger module number
ftag	ftag
ftag	Type: uinteger min: 0 max: 1023 ftag
switchid	switchid
swid	Type: uinteger min: 0 max: 16383 switch id
flow-type	indicate flow type as L2 or L3 or L4
l4	indicate Layer 4 flow
l3	indicate Layer 3 flow
l2	indicate Layer 2 flow
src-mac	Source MAC Address

src-mac	Type: ethernet Mac Address
dst-mac	Destination MAC Address
dst-mac	Type: ethernet Mac Address
vlan	Virtual LAN
vlan	Type: uinteger VLAN id
ether-type	Ether Type
ether-type	Type: uinteger Ether Type id
src-ip	Source IPv4 address
src-ip	Type: ipaddr Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
dst-ip	Type: ipaddr Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
src-ipv6	Type: ipv6addr Source IPv6 address in format i:i:i:i:i:i:i
dst-ipv6	Destination IPv6 address
dst-ipv6	Type: ipv6addr Destination IPv6 address in format i:i:i:i:i:i:i
l4-src-port	Source L4 port
l4-src-port	Type: integer min: 0 max: 65535 L4 port number
l4-dst-port	Destination l4 port

l4-dst-port	Type: integer min: 0 max: 65535 L4 port number
__readonly__	Read Only
cmd_string	Type: string Command String
is_dce_module	Type: bool Whether Module is DCE

Command Modes

- /exec
- /exec

show fabricpath topology

show fabricpath topology [detail] [passive] [**__readonly__ TABLE_tpg** *name id state* [*reason pend*]]

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
detail	Detailed information
passive	Detailed passive topology information
__readonly__	
TABLE_tpg	
name	Type: string
id	Type: uinteger
state	Type: string
reason	Type: string
pend	Type: bool

Command Modes

- /exec

show fabricpath topology interface

show fabricpath topology [*tpg-id*] **interface** [*interface*| **all**] [**__readonly__ TABLE_tpg_if** *if_name tpg_name tpg_id tpg_if_state*]

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
tpg-id	Type: integer min: 0 max: 63 Fabricpath Topology ID 0-63
interface	Display interface topology information
interface	Type: interface Display interface topology information
all	Display all DCE and non-DCE interfaces
__readonly__	
TABLE_tpg_if	
if_name	Type: string
tpg_name	Type: string
tpg_id	Type: uinteger
tpg_if_state	Type: string

Command Modes

- /exec

show fabricpath topology interface vlan

show fabricpath topology interface [*interface*| **all**] **vlan [active]** [**__readonly__ TABLE_if_vlan** *if_name tpg_name tpg_id vlan_range*]

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
interface	Display interface topology information
interface	Type: interface Display interface topology information
all	Display all DCE and non-DCE interfaces
vlan	Show vlans configured on the interface
active	Show active vlans
__readonly__	
TABLE_if_vlan	
if_name	Type: string
tpg_name	Type: string
tpg_id	Type: uinteger
vlan_range	Type: vlan-mrange

Command Modes

- /exec

show fabricpath topology vlan

show fabricpath topology [*tpg-id*] **vlan [active]** [**__readonly__ TABLE_tpg_vlan** *tpg_name tpg_id vlan_range*]

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
tpg-id	Type: integer min: 0 max: 63 Fabricpath Topology ID 0-63
vlan	VLANS in a L2 topology
active	Shows all active VLANs of the L2 topology
__readonly__	
TABLE_tpg_vlan	
tpg_name	Type: string
tpg_id	Type: uinteger
vlan_range	Type: vlan-mrange

Command Modes

- /exec

show feature

show feature [**__readonly__** [**TABLE_cfcFeatureCtrlTable** *cfcFeatureCtrlName2 cfcFeatureCtrlInstanceNum2 cfcFeatureCtrlOpStatus2*]]

Syntax Description

show	Show running system information
feature	Show feature status
__readonly__	
TABLE_cfcFeatureCtrlTable	feature table
cfcFeatureCtrlName2	Type: string feature
cfcFeatureCtrlInstanceNum2	Type: integer instance number
cfcFeatureCtrlOpStatus2	Type: string operation status

Command Modes

- /exec

show feature-set

show feature-set [*name*| *id*] [**__readonly__ TABLE-cfcFeatureSetTable** *name-out id-out cfcFeatureSetName cfcFeatureSetAction cfcFeatureSetLastAction cfcFeatureSetLastActionResult cfcFeatureSetLastFailureReason cfcFeatureSetOpStatus cfcFeatureSetOpStatusReason*]

Syntax Description

show	Show running system information
feature-set	Show feature set status
name	Type: string feature-set name
name-out	Type: string feature-set name
id	Type: integer feature-set id
__readonly__	
TABLE-cfcFeatureSetTable	feature-set table
id-out	Type: integer feature-set table index
cfcFeatureSetName	Type: string feature-set name
cfcFeatureSetAction	Type: integer action
cfcFeatureSetLastAction	Type: integer last action
cfcFeatureSetLastActionResult	Type: integer last action result
cfcFeatureSetLastFailureReason	Type: string last failure reason

cfcFeatureSetOpStatus	operation status **unknown value: 1** **enabled value: 2** **disabled value: 3** **installed value: 4** **uninstalled value: 5**
cfcFeatureSetOpStatusReason	Type: string operation status

Command Modes

- /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
__readonly__	
TABLE_services	all service names in feature set
service_name	Type: string name of the service
count	Type: integer number of services in the feature set
feature_set	Type: string feature set name
s0	Type: string Name of feature set

Command Modes

- /exec

show fex (satmgr)

show fex *chas_no* [**detail**| **ports**| **event-history**] [**__readonly__ TABLE_fex_info** *chas_id descr fex_state fex_ver sw_ver fex_interim_ver sw_interim_ver model serial part_no card_id mac num_macs bay rack enclosure enclosure_ser rack_id fex_sw_gen sw_sw_gen pin_mode max_link post_level fbr_port_control* **TABLE_fbr_state** *fbr_index fbr_oper_state fsm_state* **TABLE_fex_port** *fex_port fex_port_oper_state fbr_port primary_fabric* **TABLE_logs** *log*]

Syntax Description

show	Show running system information
fex	Show FEX information
chas_no	Type: uinteger min: 101 max: 199 FEX number
detail	Detailed information
ports	all FEX port information
event-history	FEX event history
__readonly__	
TABLE_fex_info	FEX information
chas_id	Type: uinteger Configured FEX number
descr	Type: string Description
fex_state	Type: string FEX State
fex_ver	Type: string FEX version
sw_ver	Type: string Switch version
fex_interim_ver	Type: string FEX interim version

sw_interim_ver	Type: string Switch interim version
model	Type: string FEX model
serial	Type: string FEX serial
part_no	Type: string Part number
card_id	Type: uinteger Card id
mac	Type: string Mac address
num_macs	Type: uinteger Number of macs
bay	Type: uinteger Bay Number
rack	Type: string Rack Name
enclosure	Type: string Enclosure Name
enclosure_ser	Type: string Enclosure serial
rack_id	Type: string Rack id
fex_sw_gen	Type: uinteger Fex software gen
sw_sw_gen	Type: uinteger Switch software gen
pin_mode	Type: string Pinning mode

max_link	Type: uinteger Maximum links
post_level	Type: string Post level
fbr_port_control	Type: string Fabric port for control traffic
TABLE_fbr_state	Fabric port state
fbr_index	Type: string Fabric port interface
fbr_oper_state	Type: string Fabric port operational state
fsm_state	Type: string Fabric FSM state
TABLE_fex_port	FEX port
fex_port	Type: string FEX port
fex_port_oper_state	Type: string Operational state
fbr_port	Type: string Fabric port
primary_fabric	Type: string Primary fabric port
TABLE_logs	FEX logs
log	Type: string FEX log

Command Modes

- /exec

show fex (satmgr)

show fex [**__readonly__ TABLE_fex** *fex_number chas_vendor fex_model chas_ser mod_model fex_ser module_no mod_partno fex_descr fex_state*]

Syntax Description

show	Show running system information
fex	Show FEX information
__readonly__	
TABLE_fex	Fex table
fex_number	Type: string Configured FEX number
chas_vendor	Type: string Chassis Vendor
fex_model	Type: string Fex Model
chas_ser	Type: string Chassis Serial number
mod_model	Type: string IO Module model
fex_ser	Type: string IO Module serial
module_no	Type: uinteger Module number
mod_partno	Type: string Module Part Number
fex_descr	Type: string FEX description

fex_state

Module State

Unknown value: 0

fex in state unknown

Init value: 3

fex in state init

Discovered value: 4

fex in state discovered

Connected value: 5

fex in state connected

Registration value: 6

fex in state registration

Registered value: 7

fex in state registered

Ready value: 8

fex in state ready

Online_sequence value: 9

fex in state online sequence

Online value: 10

fex in state online

Offline_request value: 11

fex in state offline request

Offline_sequence value: 12

fex in state offline sequence

Offline value: 13

fex in state offline

Image_Download value: 14

fex in state image download

Failed value: 15

fex in state failed

Removed value: 16

fex in state removed

Hl_Upgrade_seq value: 17

fex in state hitless upgrade seq

Chk_Upg_Rdy_seq value: 18

fex in state check upgrade ready seq

Save_States value: 19

fex in state save states

Hl_Upg_Idle value: 20

fex in state hitless upgrade idle

Chk_Insert_seq value: 21

fex in state check insert seq

Hl_Upg_fail value: 22

fex in state hitless upgrade fail

AA_Upg_Ready value: 23

fex in state aa upgrade ready

AA_Upg_Idle value: 24

fex in state aa upgrade idle

AA_Upg_Over value: 25

fex in state aa upgrade over

AA_Upg_Fail value: 26

fex in state aa upgrade fail

AA_Version_Mismatch value: 27

fex in state aa version mismatch

Fex_Type_Mismatch value: 28

fex is state Fex Type Mismatch

Command Modes

- /exec

show fex detail

show fex detail [**__readonly__ TABLE_fex_info** *chas_id descr fex_state fex_ver sw_ver fex_interim_ver sw_interim_ver model serial part_no card_id mac num_macs bay rack enclosure enclosure_ser rack_id fex_sw_gen sw_sw_gen pin_mode max_link post_level fbr_port_control* **TABLE_fbr_state** *fbr_index fbr_oper_state fsm_state* **TABLE_fex_port** *fex_port fex_port_oper_state fbr_port primary_fabric* **TABLE_logs** *log*]

Syntax Description

show	Show running system information
fex	Show FEX information
detail	Detailed information
__readonly__	
TABLE_fex_info	FEX information
chas_id	Type: uinteger Configured FEX number
descr	Type: string Description
fex_state	Type: string FEX State
fex_ver	Type: string FEX version
sw_ver	Type: string Switch version
fex_interim_ver	Type: string FEX interim version
sw_interim_ver	Type: string Switch interim version
model	Type: string FEX model
serial	Type: string FEX serial

part_no	Type: string Part number
card_id	Type: uinteger Card id
mac	Type: string Mac address
num_macs	Type: uinteger Number of macs
bay	Type: uinteger Bay Number
rack	Type: string Rack Name
enclosure	Type: string Enclosure Name
enclosure_ser	Type: string Enclosure serial
rack_id	Type: string Rack id
fex_sw_gen	Type: uinteger Fex software gen
sw_sw_gen	Type: uinteger Switch software gen
pin_mode	Type: string Pinning mode
max_link	Type: uinteger Maximum links
post_level	Type: string Post level
fbr_port_control	Type: string Fabric port for control traffic

TABLE_fbr_state	Fabric port state
fbr_index	Type: string Fabric port interface
fbr_oper_state	Type: string Fabric port operational state
fsm_state	Type: string Fabric FSM state
TABLE_fex_port	FEX port
fex_port	Type: string FEX port
fex_port_oper_state	Type: string Operational state
fbr_port	Type: string Fabric port
primary_fabric	Type: string Primary fabric port
TABLE_logs	FEX logs
log	Type: string FEX log

Command Modes

- /exec

show fex transceiver

show fex *chas_no* **transceiver** [**calibration**| **detail**]

Syntax Description

show	Show running system information
fex	Show FEX information
chas_no	Type: uinteger min: 101 max: 199 FEX number
transceiver	Show FEX
calibration	Show FEX transceiver calibration information
detail	show FEX transceiver detail information

Command Modes

- /exec

show fex version

show fex *i* version

Syntax Description

show	Show running system information
version	Show the software version
fex	Show fex software version
i	Type: uinteger min: 101 max: 199 FEX number

Command Modes

- /exec

show file

show file *uri0* [**cksum**| **md5sum**] [**__readonly__** [*file_content*]+ [*file_content_cksum*] [*file_content_md5sum*]]

Syntax Description

show	Show running system information
file	Displays content of files
uri0	Type: uri Filename to be displayed
cksum	Displays CRC checksum for a file
md5sum	Displays MD5 checksum for a file
__readonly__	Read only
file_content	Type: string uri file content buffer string
file_content_cksum	Type: string uri file content checksum
file_content_md5sum	Type: string uri file content md5sum

Command Modes

- /exec

show fips status

show fips status [**__readonly__ operation_status** *o_status*]

Syntax Description

show	Show running system information
fips	Show if FIPS mode is enabled or disabled *Not available in this release.*
status	Whether FIPS mode is enabled or disabled
__readonly__	
operation_status	run-time information about fips
o_status	operational status of fips **disabled value: 0** **enabled value: 1**

Command Modes

- /exec

show forwarding

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*| **all**}| **table** *table_id*] [**ip**| **ipv4**] {**route**| **rnhdb**} **[recursive]** [**summary**| **detail**| **platform**| *prefix* **[longer-prefixes]** [**detail**| **platform**]| *address* [**detail**| **platform**]| **interface** *interface* [**detail**| **platform**]| **next-hop** *nh* [**detail**| **platform**]| **attached**| **unresolved**| **adjacency** {*aif anh*| **drop**| **glean**| **punt**}] [**max-display-count** *display_count*] [**module** *module*| **vrf** {*vrf-name*| *vrf-known-name*| **all**}]+ [**__readonly__ TABLE_vrf** *vrf_name_out table_name prefix_count* **TABLE_prefix** *ip_prefix* **TABLE_path** [*ip_nexthop*| *special*] *ifname route_count path_count mask_length routes_per_mask packet_cnt byte_cnt dmac src_rloc dst_rloc lisp_header*]

Syntax Description

show	
forwarding	display fib information
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
table	display info per vpn-id
table_id	Type: hex table id in hex
ip	ipv4
ipv4	ipv4
route	display IP routing table
rnhdb	rnh-db
recursive	display routes with recursive next hops
summary	display route counts

prefix	Type: ipprefix display single exact match route
longer-prefixes	display longer prefixes
address	Type: ipaddr display single longest match route
interface	display routes with this output i/f only
interface	Type: interface output interface
next-hop	display routes with this next-hop only
nh	Type: ipaddr next hop address
attached	display directly connected routes
unresolved	display unresolved routes
adjacency	display routes via specified adjacency
aif	Type: interface adjacency output interface
anh	Type: ipaddr adjacency next-hop address
drop	display routes via drop adjacency
glean	display routes via glean adjacency
punt	display routes via punt adjacency
detail	show detailed information about the routes
platform	one command to show pi and pd info together
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
max-display-count	displays max # of routes
display_count	Type: integer count

__readonly__	
TABLE_vrf	vrf table
vrf_name_out	Type: string VRF name
table_name	Type: string table name
prefix_count	Type: integer total number of prefix in VRF
TABLE_prefix	all xml prefix entries
ip_prefix	Type: ipprefix ipv4 prefix
TABLE_path	path table
ip_nexthop	Type: ipaddr next hop address
special	special adjacencies **Attached value: 1** **Receive value: 2** **Drop value: 3**
ifname	Type: interface output interface
route_count	Type: integer total number of routes in VRF
path_count	Type: integer total number of paths in VRF
mask_length	Type: integer length of mask
routes_per_mask	Type: integer
packet_cnt	Type: integer Packet count

byte_cnt	Type: integer Byte count
dmac	Type: ethernet Destination MAC address
src_rloc	Type: ipaddr LISP Source RLOC
dst_rloc	Type: ipaddr LISP Dest RLOC
lisp_header	Type: string LISP header string

Command Modes

- /exec

show forwarding adjacency

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**ip**| **ipv4**] **adjacency [mpls] [lisp]** [*aif*] [*anh*] [**detail**| **stats**| **platform**] [**module** *module*] [**__readonly__** *adj-count nexthop rewinfo interface bgp_rnh bgp_orig_as bgp_peer_as pkts bytes exp src_addr dest_addr lisp_flags lisp_inst_id pltfm_key refcount*]

Syntax Description

show	
forwarding	display fib information
ip	ipv4
ipv4	ipv4
adjacency	display adjacency information
platform	one command to show pi and pd info together
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
mpls	mpls adjacency information
lisp	LISP adjacency information
aif	Type: interface adjacency output interface
anh	Type: ipaddr adjacency next hop
detail	detail
stats	adjacency statistics

module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
adj-count	Type: integer total adj count
nexthop	Type: ipaddr next hop address
rewinfo	Type: string rewrite information
interface	Type: interface output interface
bgp_rnh	Type: string next hop address
bgp_orig_as	Type: integer bgp orig as
bgp_peer_as	Type: integer bgp peer as
exp	Type: integer exp mapping
pkts	Type: longlong packet stats
bytes	Type: longlong bytes stats
src_addr	Type: ipaddr src address
dest_addr	Type: ipaddr dest address
lisp_flags	Type: integer lisp flags

lisp_inst_id	Type: integer lisp instance id
pltfm_key	Type: integer platform key
refcount	Type: integer reference count

Command Modes

- /exec

show forwarding bypass-hardware

show forwarding bypass-hardware [**module** *module*]

Syntax Description

show	
forwarding	fib information
bypass-hardware	bypass hardware
module	slot
module	Type: integer slot number

Command Modes

- /exec

show forwarding capture

show forwarding capture [**module** *module*] [**__readonly__** *type len data*]

Syntax Description

show	
forwarding	display fib information
capture	display capture buffer
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
type	Type: integer type
len	Type: integer length
data	Type: string raw data

Command Modes

- /exec

show forwarding distribution

show forwarding distribution {**pauz**| **rezum**}

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
pauz	start black-holing routes
rezum	stop black-holing routes

Command Modes

- /exec

show forwarding distribution capture

show forwarding distribution capture [**__readonly__** *type len data*]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
capture	unicast capture buffer
__readonly__	
type	Type: integer type
len	Type: integer length
data	Type: string raw data

Command Modes

- /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__	
id	Type: integer client identifier
pid	Type: integer client pid
name	Type: string client name
shms	Type: hex shmem start
shme	Type: hex shmem end
shmn	Type: string shmem name

Command Modes

- /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__	
slot	Type: integer slot number
state	Type: string fib state
ttc	Type: integer total table count
tprc	Type: integer total prefix count
tv4ac	Type: integer total v4 adj count
tv6ac	Type: integer total v6 adj count
TABLE_fib_state	fib-state table
tid	Type: hex table identifier
tafi	Type: string table afi
prc	Type: integer table prefix count

pc	Type: integer table path count
tname	Type: string table name

Command Modes

- /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	Info specific to a vlan
vlan-id	Type: vlan Vlan id value
group	Group specific information
grpaddr	Type: ipaddr Group address
mac-grpaddr	Type: ethernet Group MAC address
source	(G,S) specific information
srcaddr	Type: ipaddr Source address
detail	Detailed display
__readonly__	
refcount	Type: integer Reference Count
oiflist_id	Type: integer OIF list Identifier

last_oiflist_id	Type: integer Last OIF list Identifier
ftag-id	Type: integer ftag Id

Command Modes

- /exec

show forwarding distribution ipv6 multicast route

show forwarding distribution ipv6 multicast route [**table** *table_id*| **vrf** *vrf-name*] [*group* [*source*]| **summary**] [**__readonly__** *table_type num_routes num_starg_routes num_sg_routes num_gprefix_routes num_groups num_sources src_len grp_len df_ordinal rpfif address flag route_pkts route_bytes mti_src_if 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	display routes for a specific VRF
vrf-name	Type: string VRF name
table	table
table_id	Type: hex table number
group	Type: ipv6prefix Multicast IPv6 Group Address
source	Type: ipv6prefix Multicast IPv6 Source Address
summary	display route counts
__readonly__	
table_type	Type: string Table Type
num_routes	Type: integer Number of routes

num_starg_routes	Type: integer Number of (*,G) routes
num_sg_routes	Type: integer Number of (S,G) routes
num_gprefix_routes	Type: integer Number of (*,G-prefix) routes
num_groups	Type: integer Number of group entries in the table
num_sources	Type: integer Number of (S, G) entries for the group address
address	Type: string Ipv6 address string
src_len	Type: integer Source Address Mask
grp_len	Type: integer Group address Mask
df_ordinal	Type: string DF ordinal
rpfif	Type: string RPF interface
flag	Type: string Route type flag
route_pkts	Type: longlong Route packet count
route_bytes	Type: longlong Route bytes
mti_src_if	Type: hex MTI Source Ifindex
mti_grp_ip	Type: ipaddr MTI Group IP Address

mti_src_ip	Type: ipaddr MTI Source IP Address

Command Modes

- /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__** *refcount oiflist_id last_oiflist_id ftag-id src_str grp_str vlan num_routes num_starg_routes num_sg_routes num_gprefix_routes*]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
l2	L2 information
multicast	L2 multicast information
ip-based	IPv4 based
mac-based	MAC based
vlan	Info specific to a vlan
vlan-id	Type: vlan Vlan id value
group	Group specific information
grpaddr	Type: ipaddr Group address
source	(G,S) specific information
srcaddr	Type: ipaddr Source address
destination-mac	Destination MAC specific information
dmac	Type: ethernet Destination MAC address
summary	display route counts
__readonly__	
refcount	Type: integer Reference Count

oiflist_id	Type: integer OIF list Identifier
last_oiflist_id	Type: integer Last OIF list Identifier
ftag-id	Type: integer ftag Id
src_str	Type: string Source
grp_str	Type: string Group
vlan	Type: integer vlan_id
num_routes	Type: integer Number of routes
num_starg_routes	Type: integer Number of (*,G) routes
num_sg_routes	Type: integer Number of (S,G) routes
num_gprefix_routes	Type: integer Number of (*,G-prefix) routes

Command Modes

- /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
__readonly__	
count	Type: integer count

Command Modes

- /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
__readonly__	
TABLE_lisp_vrf_enabled	
vrf	Type: integer vrf key
lisp_enabled	Type: string lisp enabled status
req_id	Type: integer req id
operation	Type: string operation

Command Modes

- /exec

show forwarding distribution logging

show forwarding distribution logging [**enable**| **disable**]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
logging	enable/disable file logging
enable	start file logging
disable	stop file logging

Command Modes

- /exec

show forwarding distribution multicast (mfdm)

show forwarding distribution multicast [messages] [**__readonly__** *fibstate slot accepting_routes num_accepting_routes*]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	Outstanding Message Information
__readonly__	
fibstate	Type: string IP Multicast FIB process state
slot	Type: integer Slot
accepting_routes	Type: string Indicates whether FIB is accepting routes
num_accepting_routes	Type: integer Number of fibs accepting routes

Command Modes

- /exec

show forwarding distribution multicast (mfdm)

show forwarding distribution multicast {**mfib-txlist** [**vrf** *vrf-name*]| **mfib-buffers**}

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast information
mfib-txlist	Show MFIB transmission-list information
vrf	Specify VRF
vrf-name	Type: string Specify VRF name
mfib-buffers	Show MFIB route buffer information

Command Modes

- /exec

show forwarding distribution multicast client-ack-db

show forwarding distribution multicast client-ack-db [**__readonly__** *xid num_recepients num_responses*]

Syntax Description

show	show
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast
client-ack-db	Displays the client ack db
__readonly__	
xid	Type: integer XID
num_recepients	Type: integer Number of recepients
num_responses	Type: integer Number of responses

Command Modes

- /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
__readonly__	
num-clients	Type: integer Number of Clients registered
client-name	Type: string Client Name
client-id	Type: integer Client-id
shmem-name	Type: string Shared Memory Segment Name

Command Modes

- /exec

show forwarding distribution multicast outgoing-interface-list

show forwarding distribution multicast outgoing-interface-list {**L2**| **L3**| **OTV**} [*index*] [**__readonly__** *platform_index ref_count num_oif oif*]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
outgoing-interface-list	Outgoing interface list
L2	Layer 2 oiflist
L3	Layer 3 oiflist
OTV	OTV oiflist
index	Type: integer min: 1 max: 65535 Outgoing Interface List index
__readonly__	
platform_index	Type: hex Platform index
ref_count	Type: integer Reference count
num_oif	Type: integer Number of outgoing interfaces
oif	Type: string OIF name
next_hop	Type: string Next hops
vlan_id	Type: integer Vlan ID

Command Modes

- /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 Modes

- /exec

show forwarding distribution multicast route

show forwarding distribution [ip] multicast route [**table** *id*| **vrf** {*vrf_name*| **all**}] [[**group** {*gaddr* [*mask*]| *gprefix*}] [**source** {*saddr* [*smask*]| *sprefix*}]| **summary**] [**__readonly__** *table_name num_routes num_starg_routes num_sg_routes num_gprefix_routes src_len grp_len df_ordinal rpfif rpf_ifname flag flag_value num_groups num_sources refcount oiflist_id oif_count oif_name oif_ifindex bytecnt pktcnt mti_src_if mti_grp_ip mti_src_ip*]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
ip	IPV4 information
multicast	Multicast information
vrf	Specify VRF
vrf_name	Type: string Specify VRF name
all	Display information for all VRFs
table	Specify Multicast Routing Table
id	Type: integer Multicast Routing Table Identifier
group	IPv4 Multicast Group specific
gaddr	Type: ipaddr IPv4 Multicast Group Address
mask	Type: ipaddr mask for group ip address
gprefix	Type: ipprefix IPv4 Multicast Group Prefix
source	IPv4 Multicast Source specific
saddr	Type: ipaddr IPv4 Source Address

smask	Type: ipaddr mask for group ip address
sprefix	Type: ipprefix IPv4 Multicast Source Prefix
summary	display route counts
__readonly__	
table_name	Type: string Table name
num_routes	Type: integer Number of routes
num_starg_routes	Type: integer Number of (*,G) routes
num_sg_routes	Type: integer Number of (S,G) routes
num_gprefix_routes	Type: integer Number of (*,G-prefix) routes
src_len	Type: integer Source Address Mask
grp_len	Type: integer Group address Mask
df_ordinal	Type: integer DF ordinal
rpfif	Type: string RPF interface
rpf_ifname	Type: string RPF Interface ifName
flag	Type: string Route type flag
flag_value	Type: hex hex value of route flag

num_groups	Type: integer Number of group entries in the table
num_sources	Type: integer Number of (S, G) entries for the group address
refcount	Type: integer Reference Count
oiflist_id	Type: integer OIF list Identifier
oif_count	Type: integer Number of OIFs
oif_name	Type: string OIF Name
oif_ifindex	Type: hex OIF ifIndex
bytecnt	Type: longlong Current Byte counter
pktcnt	Type: longlong Current Packet counter
mti_src_if	Type: hex MTI Source Ifindex
mti_grp_ip	Type: ipaddr MTI Group IP Address
mti_src_ip	Type: ipaddr MTI Source IP Address

Command Modes

- /exec

show forwarding distribution otv multicast route

show forwarding distribution otv multicast route [**vlan** *vlan-id*] [**__readonly__** *refcount oiflist_id src_ip grp_ip address grp_length external_intf ds dg if_index*]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
otv	OTV information
multicast	Multicast information
route	Multicast route information
vlan	Info specific to a vlan
vlan-id	Type: vlan Vlan id value
__readonly__	
refcount	Type: integer Reference Count
oiflist_id	Type: integer OIF list Identifier
src_ip	Type: ipaddr Source IP
grp_ip	Type: ipaddr Group IP
address	Type: string IPv6 address string
grp_length	Type: integer Group length
external_intf	Type: string External interface

ds	Type: ipaddr Delivery source IP
dg	Type: ipaddr Delivery group IP
if_index	Type: string Interface Index

Command Modes

- /exec

show forwarding distribution peer-id

show forwarding distribution peer-id [**vpls**| **otv**] [**__readonly__** *str*]

Syntax Description

show	Show running system information
forwarding	forwarding information
distribution	fib distribution info
peer-id	HW Peer-id allocation info
vpls	VPLS
otv	OTV
__readonly__	
str	Type: string

Command Modes

- /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 Modes

- /exec

show forwarding ecmp

show forwarding ecmp [[**vrf** {*vrf-name*| *vrf-known-name*}] **lisp**] **[platform]** [**module** *module*] [**__readonly__** *header ecmp_hash intf nh v6nh hw_index num_mpls holder refcount num_paths sw_ptr*]

Syntax Description

show	
forwarding	Display fib information
ecmp	Show information about ECMPs
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
lisp	Show information about LISP ECMPs
platform	one command to show pi and pd info together
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
header	Type: string o/p header
ecmp_hash	Type: hex ecmp hash
intf	Type: interface interface
nh	Type: ipaddr next hop

v6nh	Type: string V6 next hop
hw_index	Type: hex Hw index
num_mpls	Type: integer No of MPLS ecmp
holder	Type: hex holder bitmap
refcount	Type: integer refcount
sw_ptr	Type: hex Software pointer
num_paths	Type: integer No of paths

Command Modes

- /exec

show forwarding ecmp recursive

show forwarding ecmp recursive [platform] [**max-display-count** *display_count*] [**module** *module*] [**__readonly__** *header num_pfxs rnh_table_id nh rnh_len v6nh hw_instance nh_vpn_label cnh_intf*]

Syntax Description

show	
forwarding	Display fib information
ecmp	Show information about ECMPs
recursive	Show information about recursive ECMPs
platform	one command to show pi and pd info together
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
max-display-count	displays max # of routes
display_count	Type: integer count
__readonly__	
header	Type: string o/p header
num_pfxs	Type: integer Number of prefixes using this virtual object
rnh_table_id	Type: hex The table id where the RNHs are present
nh	Type: ipaddr Next hop info
rnh_len	Type: integer Next hop mask length
v6nh	Type: string V6 Next hop info

hw_instance	Type: integer Hardware instance info
nh_vpn_label	Type: integer NH VPN label
cnh_intf	Type: interface cnh output interface

Command Modes

- /exec

show forwarding file-log disable

show forwarding file-log disable

Syntax Description

show	show
forwarding	forwarding
file-log	logging to tmp file
disable	disable

Command Modes

- /exec

show forwarding file-log enable

show forwarding file-log enable

Syntax Description

show	show
forwarding	forwarding
file-log	logging to tmp file
enable	enable

Command Modes

- /exec

show forwarding interfaces

show forwarding interfaces [**module** *module*] [**__readonly__** *intf v4adjcnt v6adjcnt rpfmode mac*]

Syntax Description

show	
forwarding	fib information
interfaces	show fib interface info
__readonly__	
intf	Type: interface interface name
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
v4adjcnt	Type: integer count of v4 adjacencies
v6adjcnt	Type: integer count of v6 adjacencies
mac	Type: string mac address
rpfmode	uRPF mode **none value: 1** **loose(def) value: 2** **loose value: 3** **strict value: 4**

Command Modes

- /exec

show forwarding ipv6

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*| **all**}| **table** *table_id*] **ipv6** {**route**| **rnhdb**} **[recursive]** [**detail**| **summary**| **platform**| *prefix* **[longer-prefixes]** [**detail**| **platform**]| *address* [**detail**| **platform**]| **interface** *interface*| **next-hop** *nh*| **attached**| **unresolved**| **adjacency** {*aif anh*| **drop**| **glean**| **punt**}] [**max-display-count** *display_count*] [**module** *module*| **vrf** {*vrf-name*| *vrf-known-name*| **all**}]+ [**__readonly__** *header vrfname tblname prefix-count pfx* {*nexthop*| *special*} *intf route-count path-count mask-length routes-per-mask*]

Syntax Description

show	
forwarding	display fib information
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
table	display info per vpn-id
table_id	Type: hex table id in hex
ipv6	ipv6
route	display IP routing table
platform	one command to show pi and pd info together
rnhdb	rnhdb
recursive	display routes with recursive next hops
detail	show detailed information about the routes
summary	display route counts

prefix	Type: ipv6prefix display single exact match route
longer-prefixes	display longer prefixes
address	Type: ipv6addr display single longest match route
interface	display routes with this output i/f only
interface	Type: interface output interface
next-hop	display routes with this next-hop only
nh	Type: ipv6addr next hop address
attached	display directly connected routes
unresolved	display unresolved routes
adjacency	display routes via specified adjacency
aif	Type: interface adjacency output interface
anh	Type: ipv6addr adjacency next-hop address
drop	display routes via drop adjacency
glean	display routes via glean adjacency
punt	display routes via punt adjacency
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
max-display-count	displays max # of routes
display_count	Type: integer count
__readonly__	

header	Type: string header string
vrfname	Type: string VRF name
tblname	Type: string table name
prefix-count	Type: integer total number of prefix in VRF
pfx	Type: ipv6prefix ipv6 prefix
nexthop	Type: ipv6addr next hop address
special	special adjacencies **Attached value: 1** **Receive value: 2** **Drop value: 3**
intf	Type: interface output interface
route-count	Type: integer total number of routes in VRF
path-count	Type: integer total number of paths in VRF
mask-length	Type: integer length of mask
routes-per-mask	Type: integer

Command Modes

- /exec

show forwarding ipv6 adjacency

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **ipv6 adjacency [mpls]** [*aif*] [*anh*] [**detail**| **stats**| **platform**] [**module** *module*] [**__readonly__** *adj-count nexthop rewinfo interface bgp_rnh bgp_orig_as bgp_peer_as*]

Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
adjacency	display adjacency information
platform	one command to show pi and pd info together
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
mpls	mpls adjacency information
aif	Type: interface adjacency output interface
anh	Type: ipv6addr adjacency next hop
detail	detail
stats	adjacency statistics
module	slot *Available only in the 9500 series.*

module	Type: integer slot number
__readonly__	
adj-count	Type: integer total adj count
nexthop	Type: ipv6addr next hop address
rewinfo	Type: string rewrite information
interface	Type: interface output interface
bgp_rnh	Type: string next hop address
bgp_orig_as	Type: integer bgp orig as
bgp_peer_as	Type: integer bgp peer as

Command Modes

- /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 num_routes num_starg_routes num_sg_routes num_gprefix_routes num_prefix_insert_fail num_groups num_sources src_len grp_len df_ordinal rpfif address flag route_pkts route_bytes*]

Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
multicast	IPV6 related Multicast information
route	Multicast route information
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
table	display info per vpn-id
tab_id	Type: hex table number
group	Multicast IPv6 Group Address
group	Type: ipv6prefix Multicast IPv6 Group Address with prefix
group_addr	Type: ipv6addr Multicast IPv6 Group Address

source	Multicast IPv6 Source Address
source	Type: ipv6prefix Multicast IPv6 Source Address with prefix
source_addr	Type: ipv6addr Multicast IPv6 Source Address
summary	display route counts
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
table_type	Type: string Table Type
num_routes	Type: integer Number of routes
num_starg_routes	Type: integer Number of (*,G) routes
num_sg_routes	Type: integer Number of (S,G) routes
num_gprefix_routes	Type: integer Number of (*,G-prefix) routes
num_prefix_insert_fail	Type: integer Prefix insert fail count
num_groups	Type: integer Number of group entries in the table
num_sources	Type: integer Number of (S, G) entries for the group address
address	Type: string Ipv6 address string
src_len	Type: integer Source Address Mask

grp_len	Type: integer Group address Mask
df_ordinal	Type: string DF ordinal
rpfif	Type: string RPF interface
flag	Type: string Route type flag
route_pkts	Type: longlong Route packet count
route_bytes	Type: longlong Route bytes

Command Modes

- /exec

show forwarding ipv6 pss route

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*}| **table** *table_id*] **ipv6 pss route** [**module** *module*]

Syntax Description

show	show
forwarding	forwarding
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
table	display info per vpn-id
table_id	Type: integer table number
ipv6	ipv6
pss	display info from pss
route	route
module	slot *Available only in the 9500 series.*
module	Type: integer slot number

Command Modes

- /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__** *epoch resource_id dest_index hw_handle dmac text value*]

Syntax Description

show	Show running system information
forwarding	Forwarding information
l2	L2 related information
multicast	Multicast related information
vlan	Information Specific to a Vlan
vlan-id	Type: vlan Vlan id value
group	(S,G) specific information
grpaddr	Type: ipaddr Group address
source	source specific information
srcaddr	Type: ipaddr Source address
destination-mac	Destination MAC address
dstmac	Type: ethernet Ethernet MAC address
vdc	VDC
vdc-id	Type: integer min: 1 max: 16 VDC id
module	Slot
num	Type: integer Slot number
__readonly__	

resource_id	Type: integer Resource Identifier
dest_index	Type: hex Destination Index Identifier
epoch	Type: integer Epoch number
hw_handle	Type: hex Hardware Handle
dmac	Type: ethernet Destination MAC address
text	Type: string String
value	Type: integer Value

Command Modes

- /exec

show forwarding l2vpn ipv6 multicast route

show forwarding l2vpn ipv6 multicast route [[**vlan** *vlan-id*]| [**softwarebd** *software-bd*]] [**module** *module*]

Syntax Description

show	show
forwarding	forwarding
l2vpn	Layer 2 VPN *Not available in this release.*
ipv6	ipv6
multicast	Multicast IPv6 information
route	Mcast route information
vlan	vlan
softwarebd	Software Bridge Domain
vlan-id	Type: integer min: 1 max: 4095 vlan id
software-bd	Type: integer min: 1 max: 16383 Software bd
module	slot
module	Type: integer slot number

Command Modes

- /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 *Not available in this release.*
label	VC label
label_id	Type: integer min: 0 max: 1048475 VC label
vpls	VPLS
module	slot
__readonly__	
label_id	Type: integer Label ID

Command Modes

- /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 *Not available in this release.*
label	VC label
label_id	Type: integer min: 0 max: 1048475 VC label
xconnect	xconnect or VPWS
module	slot
__readonly__	
label_id	Type: integer Label ID

Command Modes

- /exec

show forwarding l2vpn multicast outgoing-interface-list

show forwarding l2vpn multicast outgoing-interface-list [**index** *oiflist-index*]

Syntax Description

show	
forwarding	Forwarding information
l2vpn	Layer 2 VPN *Not available in this release.*
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
index	oiflist index
oiflist-index	Type: integer min: 1 max: 65534 oiflist-index

Command Modes

- /exec

show forwarding l2vpn multicast route

show forwarding l2vpn multicast route [[**vlan** *vlan-id*]| [**softwarebd** *software-bd*]] [**module** *module*]

Syntax Description

show	show
forwarding	forwarding
l2vpn	Layer 2 VPN *Not available in this release.*
multicast	Multicast IPv4 information
route	Mcast route information
vlan	vlan
softwarebd	Software Bridge Domain
vlan-id	Type: integer min: 1 max: 4095 vlan id
software-bd	Type: integer min: 1 max: 16383 Software bd
module	slot
module	Type: integer slot number

Command Modes

- /exec

show forwarding l2vpn service vpls

show forwarding l2vpn service vpls {**service_id** {*service_id*| **all**}| **vlan** {*vlan_id*| **vlan_all**}| **peer** {**interface** *intf-name*| **next-hop** *addr*| **peer_all**}} [**module** *module*] **[detail]**

Syntax Description

show	show
forwarding	display fib information
l2vpn	l2vpn forwarding *Not available in this release.*
service	Services
vpls	Vpls
service_id	Specifies a service_id
service_id	Type: integer service ID
all	all VPLS services
vlan	VLAN info
vlan_id	Type: integer VLAN number
vlan_all	all VPLS services
peer	define the peer
peer_all	all peers
interface	PW interface for peer
intf-name	Type: interface interface name
next-hop	Next hop to reach the peer
addr	Type: ipaddr IP address
module	slot

module	Type: integer slot number
detail	Display detailed information

Command Modes

- /exec

show forwarding l2vpn service xconnect

show forwarding l2vpn service xconnect service_id {*service_id*| **all**} [**module** *module*] **[detail]**

Syntax Description

show	show
forwarding	display fib information
l2vpn	l2vpn forwarding *Not available in this release.*
service	Services
xconnect	xconnect or VPWS
service_id	Specify a service_id in hex
service_id	Type: hex service ID
all	All service-id will be displayed
module	slot
module	Type: integer slot number
detail	Display detailed information

Command Modes

- /exec

show forwarding l2vpn vlan

show forwarding l2vpn vlan [*vlan_id*] [**module** *module*] [**__readonly__** *vlan*]

Syntax Description

show	show
forwarding	forwarding
l2vpn	l2vpn forwarding *Not available in this release.*
vlan	vlan
vlan_id	Type: integer min: 0 max: 4095 vlan id
module	slot
module	Type: integer slot number
__readonly__	
vlan	Type: integer vlan

Command Modes

- /exec

show forwarding mpls

show forwarding mpls [**vrf** {*vrf-name*| *vrf-known-name*| **all**} [**label** *label*| *prefix*| *v6prefix*]| **table** *table_id* [**label** *label*| *prefix*| *v6prefix*]| **label-space** *label-space-id*| **label** *label*| *prefix*| *v6prefix*] [**module** *module*] **[implicit]** [**__readonly__** *out-table-id out-intf out-ip out-op*]

Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding *Not available in this release.*
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known vrf name
all	all vrfs
table	display info per vpn-id
table_id	Type: hex table number
label-space	label space
label-space-id	Type: integer label space id
label	mpls labels
label	Type: integer min: 0 max: 1048475 mpls label value
prefix	Type: ipprefix Labels for single exact match route

v6prefix	Type: ipv6prefix Labels for single exact match v6 route
module	slot
module	Type: integer slot number
__readonly__	
out-table-id	Type: hex Output table-id
out-intf	Type: interface Output Interface
out-ip	Type: ipaddr Output Next Hop
out-op	Type: string Output Label op
implicit	Display implicit label

Command Modes

- /exec

show forwarding mpls aggregate

show forwarding mpls aggregate [**label** {*label-id*| **all**}] **[detail]** [**module** *module*] [**__readonly__** [**TABLE_label_info** *label id* [*sw_index*]]]

Syntax Description

show	
forwarding	display fib information
mpls	mpls forwaring *Not available in this release.*
aggregate	aggregate label
label	label
label-id	Type: integer label-id
all	all
detail	detail
module	slot
module	Type: integer slot number
__readonly__	
TABLE_label_info	
label	Type: integer
id	Type: hex
sw_index	Type: hex

Command Modes

- /exec

show forwarding mpls cbts

show forwarding mpls cbts [**module** *module*] [**__readonly__** [**TABLE_cbts** *label* [*out-intf*] [*out-table-id*] [*out-ip*] [*out-op*]]]

Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwaring *Not available in this release.*
cbts	cbts labels
module	slot
module	Type: integer slot number
__readonly__	
TABLE_cbts	
label	Type: integer mpls label value
out-intf	Type: string Output Interface
out-table-id	Type: hex Output table-id
out-ip	Type: string Output Next Hop
out-op	Type: string Output Label op

Command Modes

- /exec

show forwarding mpls ecmp

show forwarding mpls ecmp [**module** *module*] [**__readonly__** [**TABLE_ecmp** *type num_paths ip_paths mpls_paths ecmp_hash holder refcount hw_index* [**TABLE_ecmp_paths** *label_info*]]]

Syntax Description

show	show
forwarding	display fib information
mpls	mpls forwarding
ecmp	mpls ecmps
module	slot
module	Type: integer slot number
__readonly__	
TABLE_ecmp	
type	Type: hex ecmp type
num_paths	Type: integer No of paths
ip_paths	Type: integer No of ip paths
mpls_paths	Type: integer No of mpls paths
ecmp_hash	Type: hex ecmp hash
holder	Type: hex holder bitmap
refcount	Type: integer refcount
hw_index	Type: hex Hw index

TABLE_ecmp_paths	
label_info	Type: string rew info

Command Modes

- /exec

show forwarding mpls summary

show forwarding mpls summary [**module** *module*] [**__readonly__** [**TABLE_labels** *space count total_deagg_labels*]]

Syntax Description

show	show
forwarding	display fib information
mpls	mpls forwarding *Not available in this release.*
summary	summary
module	slot
module	Type: integer slot number
__readonly__	
TABLE_labels	
space	Type: hex label space
count	Type: integer number of labels
total_deagg_labels	Type: integer total deagg labels

Command Modes

- /exec

show forwarding mpls te

show forwarding mpls te [*te_if*] **[detail]** [**module** *module*] [**__readonly__ TABLE_te** *id* [*midpoint_source*] [*dest*] [*tunnel_id*] [*ext_tunnel_id*] [*lisp_id*] [*adjacency*] [*hh*] [*lfib_adj*] [*adj_refcount*] [*obj_refcount*] [*te_state*] [*next_hop*] [*next_if_index*] [*op_label*] [*backup_tunnel*] [*adj_key_id*] [*frr_label*] [*local_label*] [*adj_count*] [*type*] [*out_if*] [*out_lbl*] [*backup_if*] [*backup_lbl*]]

Syntax Description

show	
forwarding	display fib information
mpls	mpls forwarding *Not available in this release.*
te	Traffic Engineering
detail	detail
module	slot
te_if	Type: interface tunnel-te number
module	Type: integer slot number
__readonly__	
TABLE_te	
id	Type: string headend if index
midpoint_source	Type: string
dest	Type: string
tunnel_id	Type: hex
ext_tunnel_id	Type: hex
lisp_id	Type: hex
adjacency	Type: string
hh	Type: hex HH

lfib_adj	Type: string lfib adjavency is drop
adj_refcount	Type: integer
obj_refcount	Type: integer
te_state	Type: string
next_hop	Type: string
next_if_index	Type: string
op_label	Type: integer
backup_tunnel	Type: string
adj_key_id	Type: integer
frr_label	Type: integer
local_label	Type: string
adj_count	Type: integer te related adj count
type	Type: string
out_if	Type: string
out_lbl	Type: integer
backup_if	Type: string
backup_lbl	Type: integer

Command Modes

- /exec

show forwarding multicast outgoing-interface-list

show forwarding multicast outgoing-interface-list {**L2**| **L3**} **[platform]** [**module** *module*] [*index*] [**__readonly__** *refcount num_oif intf*]

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
platform	Display PI/PD
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
index	Type: integer min: 1 max: 65535 Outgoing Interface List Index
__readonly__	
refcount	Type: integer Reference count
num_oif	Type: integer Number of outgoing interfaces
intf	Type: string OIF name

Command Modes

- /exec

show forwarding multicast route

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*| **all**}| **table** *table_id*] [**ip**| **ipv4**] **multicast route [platform]** {[**group** {*gaddr* [*mask*]| *gprefix*}| **source** {*saddr* [*smask*]| *sprefix*}| **module** *module*| **vrf** {*vrf-name*| *vrf-known-name*| **all**}]+| **summary** [**module** *module*| **vrf** {*vrf-name*| *vrf-known-name*| **all**}]+} [**__readonly__** *table_type num_routes num_starg_routes num_sg_routes num_gprefix_routes num_prefix_insert_fail 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	
forwarding	Forwarding information
ip	ipv4
ipv4	ipv4
multicast	Multicast IPv4 information
route	Mcast route information
platform	Platform Details
table	display info per vpn-id
table_id	Type: integer table number
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
group	Multicast IPv4 Group specific info
gaddr	Type: ipaddr Multicast IPv4 Group Address

mask	Type: ipaddr Multicast IPv4 Group Address mask
gprefix	Type: ipprefix Multicast IPv4 Group Prefix
source	Multicast IPv4 Source specific info
saddr	Type: ipaddr Multicast IPv4 Source Address
smask	Type: ipaddr Multicast IPv4 Source Address mask
sprefix	Type: ipprefix Multicast IPv4 Source Prefix
summary	display route counts
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
table_type	Type: string Table Type
num_routes	Type: integer Number of routes
num_starg_routes	Type: integer Number of (*,G) routes
num_sg_routes	Type: integer Number of (S,G) routes
num_gprefix_routes	Type: integer Number of (*,G-prefix) routes
num_prefix_insert_fail	Type: integer Prefix insert fail count
num_groups	Type: integer Number of group entries in the table

num_sources	Type: integer Number of (S, G) entries for the group address
src_len	Type: integer Source Address Mask
grp_len	Type: integer Group address Mask
df_ordinal	Type: string DF ordinal
rpfif	Type: string RPF interface
rpf_ifindex	Type: hex RPF Interface ifIndex
flag	Type: string Route type flag
flag_value	Type: hex hex value of route flag
route_pkts	Type: longlong Route packet count
route_bytes	Type: longlong Route bytes
oiflist_id	Type: integer OIF list Identifier
platform_id	Type: integer Platform-index
oif_count	Type: integer Number of OIFs
refcount	Type: integer OIF list Reference Count
oifname	Type: string OIF Interface name

oifindex	Type: hex OIF Interface ifIndex
oif_pkts	Type: longlong OIF packets
oif_bytes	Type: longlong OIF bytes

Command Modes

- /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 *Not available in this release.*
intf	Type: interface overlay interface
peer	overlay peer
peer-id	Type: integer overlay peer-id
module	slot
module	Type: integer slot number
__readonly__	
vlan	Type: integer Vlan information
peer-id	Type: integer peer-id
peer_vlan_count	Type: integer peer vlan count
tunnel_ifindex	Type: hex tunnel ifindex
tunnel_ifname	Type: string tunnel if name

Command Modes

- /exec

show forwarding otv ipv6 multicast route

show forwarding otv ipv6 multicast route [**vlan** *vlan_id*] [**module** *module*] [**__readonly__** [*table_type*] [*vlan-id*] [*replicator*] [*num_routes*] [*num_starg_routes*] [*num_sg_routes*] [*num_gprefix_routes*] [*num_prefix_insert_fail*] [*num_groups*] [*num_sources*] [**TABLE_otv_mroute** [*src_addr*] [*src_len*] [*grp_addr*] [*grp_len*] [*df_ordinal*] [*rpfif*] [*flag*] [*route_pkts*] [*route_bytes*] [*otv_route_pkts*] [*otv_route_bytes*] [**TABLE_OIF** *oif_count* [*oiflist_id*] [*index*] [*refcount*] [**TABLE_OIFLIST** *oifindex* [*oif_pkts*] [*oif_bytes*] [*src_addr*] [*src_len*] [*oifname*] [*vlanid*] [*grp_addr*] [*grp_len*] [*otv_src_addr*] [*otv_grp_addr*]]]]]

Syntax Description

show	show
forwarding	forwarding
otv	over-the-top virtualization *Not available in this release.*
ipv6	ipv6
multicast	Multicast IPv6 information
route	Mcast route information
vlan	vlan
vlan_id	Type: integer min: 1 max: 4095 vlan id
module	slot
module	Type: integer slot number
__readonly__	
table_type	Type: string Table Type
vlan-id	Type: integer vlan id
replicator	Type: string replicator name
num_routes	Type: integer Number of routes

num_starg_routes	Type: integer Number of (*,G) routes
num_sg_routes	Type: integer Number of (S,G) routes
num_gprefix_routes	Type: integer Number of (*,G-prefix) routes
num_prefix_insert_fail	Type: integer Prefix insert fail count
num_groups	Type: integer Number of group entries in the table
num_sources	Type: integer Number of (S, G) entries for the group address
TABLE_otv_mroute	
src_addr	Type: string Ipv6 address string
src_len	Type: integer Source Address Mask
grp_addr	Type: string Ipv6 address string
grp_len	Type: integer Group address Mask
df_ordinal	Type: string DF ordinal
rpfif	Type: string RPF interface
flag	Type: string Route type flag
route_pkts	Type: longlong Route packet count
route_bytes	Type: longlong Route bytes

otv_route_pkts	Type: longlong OTV Route packet count
otv_route_bytes	Type: longlong OTV Route bytes
TABLE_OIF	
oif_count	Type: integer Number of OIFs
oiflist_id	Type: integer OIF list Identifier
index	Type: integer min: 1 max: 65535 outgoing interface list index
refcount	Type: integer reference count
TABLE_OIFLIST	
oifindex	Type: string OIF Interface ifIndex
oif_pkts	Type: longlong OIF packets
oif_bytes	Type: longlong OIF bytes
src_addr	Type: ipaddr Multicast IPv4 Source Address
src_len	Type: integer Source Address Mask
oifname	Type: string OIF Interface name
vlanid	Type: integer vlan id of the route
grp_addr	Type: ipaddr Multicast IPv4 Group Address

grp_len	Type: integer Group address Mask
otv_src_addr	Type: ipaddr Multicast IPv4 Source Address
otv_grp_addr	Type: ipaddr Multicast IPv4 Group Address

Command Modes

- /exec

show forwarding otv multicast outgoing-interface-list

show forwarding otv multicast outgoing-interface-list [**__readonly__ TABLE_OIF** *index* [*refcount*] [*intf*] [**TABLE_OIFLIST** *oifindex* [*src_addr*] [*src_len*] [*oifname*] [*vlanid*] [*grp_addr*] [*grp_len*]]]

Syntax Description

show	
forwarding	Forwarding information
otv	over-the-top virtualization *Not available in this release.*
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
__readonly__	
TABLE_OIF	outgoing interface list table
index	Type: integer min: 1 max: 65535 outgoing interface list index
refcount	Type: integer reference count
intf	Type: string interface name
TABLE_OIFLIST	outgoing interface list table
oifindex	Type: string OIF Interface ifIndex
src_addr	Type: ipaddr Multicast IPv4 Source Address
src_len	Type: integer Source Address Mask
oifname	Type: string OIF Interface name
vlanid	Type: integer vlan id of the route

grp_addr	Type: ipaddr Multicast IPv4 Group Address
grp_len	Type: integer Group address Mask

Command Modes

- /exec

show forwarding otv multicast route

show forwarding otv multicast route [[**vlan** *vlan-id*]| [**softwarebd** *software-bd*]] [**module** *module*] [**__readonly__** *replicator*]

Syntax Description

show	show
forwarding	forwarding
otv	over-the-top virtualization *Not available in this release.*
multicast	Multicast IPv4 information
route	Mcast route information
vlan	vlan
vlan-id	Type: integer min: 1 max: 4095 vlan id
softwarebd	Software Bridge Domain
software-bd	Type: integer min: 1 max: 16383 Software bd
module	slot
module	Type: integer slot number
__readonly__	
replicator	Type: string replicator name

Command Modes

- /exec

show forwarding otv vlan

show forwarding otv vlan [*vlan_id*] [**module** *module*] [**__readonly__** *vlan*]

Syntax Description

show	show
forwarding	forwarding
otv	otv *Not available in this release.*
vlan	vlan
vlan_id	Type: integer min: 0 max: 4095 vlan id
module	slot
module	Type: integer slot number
__readonly__	
vlan	Type: integer vlan

Command Modes

- /exec

show forwarding pss route

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*}| **table** *table_id*] [**ip**| **ipv4**] **pss route** [**module** *module*]

Syntax Description

show	show
forwarding	forwarding
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
table	display info per vpn-id
table_id	Type: integer table number
ip	ipv4
ipv4	ipv4
pss	display info from pss
route	route
module	slot *Available only in the 9500 series.*
module	Type: integer slot number

Command Modes

- /exec

show forwarding restart

show forwarding restart [**module** *module*]

Syntax Description

show	
forwarding	fib information
restart	restart fib
module	slot
module	Type: integer slot number

Command Modes

- /exec

show forwarding security group-tag

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*| **all**}| **table** *table_id*| **vlan** *vlan_id*] [**ip**| **ipv4**] **security group-tag** [*addr*] [**module** *num*| **vrf** {*vrf-name*| *vrf-known-name*| **all**}]+ [**__readonly__** *header vrfname tid pfx-count ipa tag tv vid*]

Syntax Description

show	
forwarding	display fib information
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
table	display info per vpn-id
table_id	Type: integer table number
vlan	vlan
vlan_id	Type: integer vlan number
ip	ipv4
ipv4	ipv4
security	display IP security information
group-tag	ip_address->security_group_tag
addr	Type: ipaddr specific ip address

module	slot *Available only in the 9500 series.*
__readonly__	
header	Type: string header string
vrfname	Type: string VRF name
tid	Type: integer table identifier
num	Type: integer-range module number
pfx-count	Type: integer total prefix count in VRF
ipa	Type: ipaddr ip address
tag	Type: integer min: 0 max: 65535 security group tag
tv	Type: integer min: 0 max: 1 sgt valid
vid	Type: integer vlan indentifier

Command Modes

- /exec

show forwarding security mac

show forwarding [**vrf** {*vrf-name*| *vrf-known-name*| **all**}| **table** *table_id*] [**ip**| **ipv4**] **security mac** [*addr*] [**module** *module*| **vrf** {*vrf-name*| *vrf-known-name*| **all**}]+ [**__readonly__** *header vrfname tid pfx-count ipa mac p m v intf*]

Syntax Description

show	
forwarding	display fib information
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
table	display info per vpn-id
table_id	Type: integer table number
ip	ipv4
ipv4	ipv4
security	display IP security information
mac	ip_address->mac_address
addr	Type: ipaddr specific ip address
module	slot *Available only in the 9500 series.*
module	Type: integer slot number

__readonly__	
header	Type: string header string
vrfname	Type: string VRF name
tid	Type: integer table identifier
pfx-count	Type: integer total prefix count in VRF
ipa	Type: ipaddr ip address
mac	Type: string mac address
p	Type: integer min: 0 max: 1 1 => ip->port binding
m	Type: integer min: 0 max: 1 1 => ip->mac binding
v	Type: integer min: 0 max: 1 1 => ip->vlan binding
intf	Type: interface ip->port interface

Command Modes

- /exec

show forwarding trace

show forwarding trace [clear] [**module** *module*] [**__readonly__** *op*]

Syntax Description

show	
forwarding	display fib information
trace	display trace buffer *Available only in the 9500 series.*
clear	clear the trace buffer
module	slot
module	Type: integer slot number
__readonly__	
op	Type: string output

Command Modes

- /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 Modes

- /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	enable function statistics
disable	disable function statistics
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
op	Type: string output

Command Modes

- /exec

G Show Commands

- show glbp, page 488
- show glbp brief, page 497
- show glbp capability, page 500

show glbp

show glbp [**vrf** *vrf-name*] [**interface** *int-num*] [**group** *group-num*] [**active**| **standby**| **disabled**| **init**| **listen**]+ [**__readonly__** *show_glbp_start* **TABLE_grp_detail** *sg_if_index sg_group_num sg_cmd_start sg_state sg_state_reason sg_state_count sg_state_last_change sg_vip sg_vip_attr sg_num_vip_sec* **TABLE_grp_vip_sec** *sg_vip_sec sg_vip_sec_attr sg_active_addr sg_cur_hello sg_cfg_hello sg_active_hello sg_cur_hold sg_cfg_hold sg_active_hold sg_is_hello_timer_running sg_next_hello sg_cur_redirect_time sg_cfg_redirect_time sg_active_redirect_time sg_cur_sec_holdtime sg_cfg_sec_holdtime sg_active_sec_holdtime sg_cfg_ext_holdtime sg_auth_data_type sg_auth_data sg_preempt sg_preempt_min_delay sg_is_preempt_timer_running sg_preempt_ts sg_active_priority sg_active_timer sg_standby_addr sg_standby_priority sg_standby_timer sg_grp_priority sg_grp_priority_attr sg_weighting sg_weighting_attr sg_weighting_satisfied sg_weighting_max sg_weighting_lower sg_weighting_upper sg_track_object sg_track_state sg_track_decrement sg_load_bal sg_red_name sg_mem_count sg_mem_start* **TABLE_grp_members** *sg_mem_local_mac sg_mem_local_ip sg_mem_mac sg_mem_ip sg_is_mem_local sg_is_mem_authenticated sg_mem_end sg_all_mem_end sg_fwd_count sg_active_fwd_count sg_fwd_start* **TABLE_fwd_detail** *sg_fwd_num sg_fwd_state sg_fwd_state_change_count sg_fwd_last_state_change sg_fwd_mac sg_fwd_mac_type sg_fwd_cfg_mac sg_fwd_owner sg_fwd_redirect sg_fwd_redirect_timer sg_fwd_is_sec_tmr_run sg_fwd_sec_timer sg_fwd_ttl sg_fwd_ttr sg_fwd_pre sg_fwd_pre_min_delay sg_fwd_is_pre_min_run sg_fwd_pre_min_val sg_fwd_active_router sg_fwd_active_router_attr sg_fwd_weighting sg_fwd_active_addr sg_fwd_active_prio sg_fwd_active_prio_attr sg_fwd_active_prio_weight_attr sg_fwd_active_timer_val sg_fwd_arp_replies sg_fwd_redirection sg_fwd_preempt sg_fwd_end sg_all_fwd_end sg_nsf_state show_glbp_end*]

Syntax Description

show	Show running system information
glbp	Show GLBP
vrf	Display per-VRF information
vrf-name	Type: vrf VRF name
interface	Interface
int-num	Type: interface Interface type and number
group	Group number
group-num	Type: integer min: 0 max: 1023 Group number
active	Groups in active state
standby	Groups in standby state

disabled	Groups in disabled state
init	Groups in init state
listen	Groups in listen state
__readonly__	Read only
show_glbp_start	Type: uinteger show glbp start
TABLE_grp_detail	Group table detail
sg_if_index	Type: interface Interface type and number
sg_group_num	Type: uinteger Group number
sg_state	glbp state **Active value: 0x20** **Init value: 0x02** **Disabled value: 0x01** **Listen value: 0x04** **Speak value: 0x08** **Standby value: 0x10**
sg_state_reason	Type: string Reason
sg_state_count	Type: uinteger Number of state changes
sg_state_last_change	Type: duration Time of last state change
sg_vip	Type: ipaddr Virtual IP address

sg_vip_attr	Virtual IP address attribute **config value: 0** **learnt value: 1** **duplicate value: 2**
sg_num_vip_sec	Type: uinteger Number of Secondary virtual IP address
TABLE_grp_vip_sec	Group secondary ip address
sg_vip_sec	Type: ipaddr Secondary virtual IP address
sg_vip_sec_attr	Secondary Virtual IP address attribute **config value: 0** **duplicate value: 2**
sg_active_addr	Type: ipaddr Active IP address
sg_cur_hello	Type: uinteger Current Hello Time
sg_cfg_hello	Type: uinteger Configured Hello Time
sg_active_hello	Type: uinteger Active Hello Time
sg_cur_hold	Type: uinteger Current Hold Time
sg_cfg_hold	Type: uinteger Configured Hold Time
sg_active_hold	Type: uinteger Active Hold Time
sg_is_hello_timer_running	Type: bool Hello Timer

sg_next_hello	Type: uinteger Time for next hello
sg_cur_redirect_time	Type: uinteger Current redirect time
sg_cfg_redirect_time	Type: uinteger Configured redirect time
sg_active_redirect_time	Type: uinteger Active redirect time
sg_cur_sec_holdtime	Type: uinteger Current secondary hold time
sg_cfg_sec_holdtime	Type: uinteger Configured secondary hold time
sg_active_sec_holdtime	Type: uinteger Active secondary hold time
sg_cfg_ext_holdtime	Type: uinteger Configured Extended hold time
sg_auth_data_type	Authentication data type **text value: 1** **key-string value: 2** **key-chain value: 3**
sg_auth_data	Type: string Authentication data
sg_preempt	Type: bool Preemption enabled
sg_preempt_min_delay	Type: uinteger Preemption min delay
sg_is_preempt_timer_running	Type: bool Preemption timer running
sg_preempt_ts	Type: uinteger Preemption timestamp

sg_active_priority	Type: uinteger Active router priority
sg_active_timer	Type: uinteger Active timer value
sg_standby_addr	Type: ipaddr Standby address
sg_standby_priority	Type: uinteger Standby priority
sg_standby_timer	Type: uinteger Standby timer value
sg_grp_priority	Type: uinteger Group priority
sg_grp_priority_attr	Type: _enum Group priority attribute
sg_weighting	Type: uinteger Weighting
sg_weighting_attr	Type: _enum Weighting attribute
sg_weighting_satisfied	Type: bool Weighting satisfied
sg_weighting_max	Type: uinteger Weighting max
sg_weighting_lower	Type: uinteger Weighting lower
sg_weighting_upper	Type: uinteger Weighting upper
sg_track_object	Type: uinteger Track
sg_track_state	Type: uinteger Track state

sg_track_decrement	Type: uinteger Track decrement
sg_load_bal	Load balancing **disabled value: 1** **round-robin value: 2** **weighted value: 3** **host-dependent value: 4** **unknown value: 5**
sg_red_name	Type: string IP redundancy name
sg_mem_count	Type: uinteger Membership count
sg_mem_start	Type: uinteger Start of membership attributes
TABLE_grp_members	Group members
sg_mem_local_mac	Type: ethernet Member's local mac address
sg_mem_local_ip	Type: ipaddr Member's local ip address
sg_mem_mac	Type: ethernet Member's mac address
sg_mem_ip	Type: ipaddr Member's ip address
sg_is_mem_local	Type: bool Local
sg_is_mem_authenticated	Type: bool Is Member authenticated
sg_mem_end	Type: uinteger End of membership attributes

sg_all_mem_end	Type: uinteger End of all members
sg_fwd_count	Type: uinteger Number of forwarders in the group
sg_active_fwd_count	Type: uinteger Number of active forwarders in group
sg_fwd_start	Type: uinteger Forwarder Start attribute
TABLE_fwd_detail	Forwarder table detail
sg_fwd_num	Type: uinteger Forwarder Number
sg_fwd_state	Forwarder State **Active value: 0x20** **Init value: 0x02** **Disabled value: 0x01** **Listen value: 0x04**
sg_fwd_state_change_count	Type: uinteger Forwarder State Change count
sg_fwd_last_state_change	Type: duration Time of last State Change
sg_fwd_mac	Type: ethernet Forwarder MAC address
sg_fwd_mac_type	Type: _enum Forwarder MAC address type
sg_fwd_cfg_mac	Type: ethernet Configured Forwarder MAC address
sg_fwd_owner	Type: ethernet Forwarder owner

sg_fwd_redirect	Type: bool Forwarder redirection enabled
sg_fwd_redirect_timer	Type: uinteger Forwarder redirection timer
sg_fwd_is_sec_tmr_run	Type: bool Is Forwarder secondary timer running
sg_fwd_sec_timer	Type: uinteger Forwarder secondary timer
sg_fwd_ttl	Type: uinteger Forwarder ttl
sg_fwd_ttr	Type: uinteger Forwarder ttr
sg_fwd_pre	Type: bool Forwarder preemption enabled
sg_fwd_pre_min_delay	Type: uinteger Forwarder preempt min delay
sg_fwd_is_pre_min_run	Type: bool Is Forwarder preempt min running
sg_fwd_pre_min_val	Type: uinteger Forwarder preempt min value
sg_fwd_active_router	Type: ipaddr Forwarder active router address
sg_fwd_active_router_attr	Type: _enum Forwarder active router attribute
sg_fwd_weighting	Type: uinteger Forwarder weighting
sg_fwd_active_addr	Type: ipaddr Forwarder active address
sg_fwd_active_prio	Type: uinteger Forwarder active priority

sg_fwd_active_prio_attr	Forwarder priority attribute **primary value: 1** **secondary value: 2**
sg_fwd_active_prio_weight_attr	Forwarder priority weight attribute **none value: 0** **low value: 1**
sg_fwd_active_timer_val	Type: uinteger Forwarder active timer val
sg_fwd_arp_replies	Type: uinteger Forwarder arp replies
sg_fwd_redirection	Type: string Forwarder redirection string
sg_fwd_preempt	Type: string Forwarder preemption string
sg_fwd_end	Type: uinteger Forwarder End attribute
sg_all_fwd_end	Type: uinteger All Forwarders End attribute
sg_nsf_state	Type: bool show nsf state
sg_cmd_start	Type: bool start of show command
show_glbp_end	Type: uinteger End of Group

Command Modes

- /exec

show glbp brief

show glbp [**vrf** *vrf-name*] [**interface** *int-num*] [**group** *group-num*] [**active**| **standby**| **disabled**| **init**| **listen**]+ **brief** [**__readonly__** *sg_brf_start sg_brf_show_header* **TABLE_grp** *sg_brf_int sg_brf_group sg_brf_pri sg_brf_state sg_brf_vip sg_brf_act sg_brf_stdby sg_brf_fwd_start* **TABLE_fwd** *sg_brf_fwd_int sg_brf_fwd_group sg_brf_fwd_num sg_brf_fwd_pri sg_brf_fwd_state sg_brf_fwd_mac sg_brf_fwd_act sg_brf_fwd_end sg_brf_all_fwd_end sg_brf_end*]

Syntax Description

show	Show running system information
glbp	Show GLBP
vrf	Display per-VRF information
vrf-name	Type: vrf VRF name
interface	Interface
int-num	Type: interface Interface type and number
group	Group number
group-num	Type: integer min: 0 max: 1023 Group number
active	Groups in active state
standby	Groups in standby state
disabled	Groups in disabled state
init	Groups in init state
listen	Groups in listen state
brief	Brief output
__readonly__	Read only
sg_brf_start	Type: uinteger Start of group brief

sg_brf_show_header	Type: uinteger Show brief header
TABLE_grp	Group table
sg_brf_int	Type: interface Interface type and number
sg_brf_group	Type: uinteger Group number
sg_brf_pri	Type: uinteger Group priority
sg_brf_state	Group state **Active value: 0x20** **Init value: 0x02** **Disabled value: 0x01** **Listen value: 0x04** **Speak value: 0x08** **Standby value: 0x10**
sg_brf_vip	Type: ipaddr Virtual IP address
sg_brf_act	Type: ipaddr Active router
sg_brf_stdby	Type: ipaddr Standby router
sg_brf_fwd_start	Type: uinteger Start of forwarder brief
TABLE_fwd	Forwarder table
sg_brf_fwd_int	Type: interface Forwarder interface
sg_brf_fwd_group	Type: uinteger Forwarder group number

sg_brf_fwd_num	Type: uinteger Forwarder number
sg_brf_fwd_pri	Type: uinteger Forwarder priority
sg_brf_fwd_state	Forwarder state **Active value: 0x20** **Init value: 0x02** **Disabled value: 0x01** **Listen value: 0x04**
sg_brf_fwd_mac	Type: ethernet Forwarder MAC address
sg_brf_fwd_act	Type: ipaddr Forwarder active address
sg_brf_fwd_end	Type: uinteger End of forwarder brief
sg_brf_all_fwd_end	Type: uinteger End of all forwarders in group
sg_brf_end	Type: uinteger End of group brief

Command Modes

- /exec

show glbp capability

show glbp capability [**interface** *int-num*] [**__readonly__** *sg_cap_header sg_cap_start* **TABLE_cap** *sg_cap_int sg_cap_int_type sg_cap_support sg_cap_max_groups sg_cap_end sg_cap_all_if_end*]

Syntax Description

show	Show running system information
glbp	GLBP
capability	GLBP capability
interface	Interface
int-num	Type: interface Interface type and number
__readonly__	Read only
sg_cap_header	Type: bool GLBP capability header
sg_cap_start	Type: uinteger Start of GLBP capability
TABLE_cap	Capability table
sg_cap_int	Type: interface Interface
sg_cap_int_type	Type: uinteger Interface type
sg_cap_support	Type: bool Is GLBP supported
sg_cap_max_groups	Type: uinteger Maximum number of GLBP groups
sg_cap_end	Type: uinteger End of GLBP capability for interface
sg_cap_all_if_end	Type: uinteger End of GLBP capability for all interfaces

Command Modes

- /exec

H Show Commands

- show hardware, page 505
- show hardware access-list lou resource threshold, page 508
- show hardware access-list resource pooling, page 509
- show hardware access-list tcam region, page 510
- show hardware capacity, page 511
- show hardware capacity eobc, page 512
- show hardware capacity forwarding, page 513
- show hardware capacity interface, page 514
- show hardware capacity module, page 516
- show hardware capacity power, page 518
- show hardware fabricpath mac-learning module, page 520
- show hardware feature-capability, page 521
- show hardware forwarding interface statistics mode, page 522
- show hardware forwarding multicast fabric-path ingress, page 523
- show hardware ip verify, page 525
- show hardware mac address-table, page 526
- show hardware qos eoq stats-class, page 528
- show hardware qos ns-buffer-profile, page 529
- show hardware qos ns-mcq3-alias, page 530
- show hardware rate-limiter, page 531
- show hardware rl snmp class-id, page 534
- show hardware rl snmp global class-id, page 535
- show hardware rl snmp local snmp-index class-id, page 536
- show hosts, page 538

- show hsrp, page 540
- show hsrp bfd-sessions, page 547
- show hsrp delay, page 549
- show hsrp ext-mib sec-addr, page 550
- show hsrp ext-mib use-bia, page 552
- show hsrp summary, page 553

show hardware

show hardware [**__readonly__** *header_str bios_ver_str* [*loader_ver_str*] *kickstart_ver_str* [*sys_ver_str*] *bios_cmpl_time kick_file_name kick_cmpl_time kick_tmstmp* [*isan_file_name*] [*isan_cmpl_time*] [*isan_tmstmp*] *chassis_id module_id cpu_name memory mem_type proc_board_id* [*host_name*] *bootflash_size* [*slot0_size*] *kern_uptm_days kern_uptm_hrs kern_uptm_mins kern_uptm_secs rr_usecs rr_ctime rr_reason* [*rr_sys_ver*] [*rr_service*] [*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*]]]]

Syntax Description

show	Show running system information
hardware	Show hardware information
__readonly__	
header_str	Type: string
bios_ver_str	Type: string
loader_ver_str	Type: string
kickstart_ver_str	Type: string
sys_ver_str	Type: string
bios_cmpl_time	Type: string
kick_file_name	Type: string
kick_cmpl_time	Type: string
kick_tmstmp	Type: string
isan_file_name	Type: string
isan_cmpl_time	Type: string
isan_tmstmp	Type: string
chassis_id	Type: string
module_id	Type: string
cpu_name	Type: string
memory	Type: integer
mem_type	Type: string

proc_board_id	Type: string
bootflash_size	Type: integer
slot0_size	Type: integer
host_name	Type: string
kern_uptm_days	Type: integer
kern_uptm_hrs	Type: integer
kern_uptm_mins	Type: integer
kern_uptm_secs	Type: integer
rr_usecs	Type: integer
rr_ctime	Type: integer
rr_reason	Type: string
rr_sys_ver	Type: string
rr_service	Type: string
manufacturer	Type: string
TABLE_slot	Slot
TABLE_slot_info_header	Slot Info Header
num_slot_str	Type: string Number of elements
TABLE_slot_info	Slot Info
status_ok_empty	Type: string Status (Present or Absent)
type	Type: string Description of the element
num_submods	Type: string Number of Submodules
model_num	Type: string Model Number

hw_ver	Type: string Hardware version
part_num	Type: string Part Number
part_revision	Type: string Part revision
manuf_date	Type: string Manufacturing date
serial_num	Type: string Serial Number
CLEI_code	Type: string CLEI code

Command Modes

- /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__	
current	
lou	
resource	
threshold	
threshold_value	Type: integer

Command Modes

- /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 *Not available in this release.*
pooling	ACL programming across TCAM banks
__readonly__	
mod-num	Type: integer module number
status	Type: integer Banchaining status

Command Modes

- /exec

show hardware access-list tcam region

show hardware access-list tcam region [**__readonly__ TCAM_Region** [**TABLE_Sizes** *tcam_type tcam_size*]]

Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
tcam	Show tcam parameters
region	Show tcam region sizes
__readonly__	
TCAM_Region	
TABLE_Sizes	
tcam_type	Type: string
tcam_size	Type: integer

Command Modes

- /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 Modes

- /exec

show hardware capacity eobc

show hardware capacity eobc [**__readonly__ eobc_usage** *eobc_rx_packets eobc_rx_dropped eobc_rx_pps eobc_tx_packets eobc_tx_dropped eobc_tx_pps*]

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
eobc	EOBC resources
__readonly__	
eobc_usage	
eobc_rx_packets	Type: uinteger
eobc_rx_dropped	Type: uinteger
eobc_rx_pps	Type: uinteger
eobc_tx_packets	Type: uinteger
eobc_tx_dropped	Type: uinteger
eobc_tx_pps	Type: uinteger

Command Modes

- /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 Modes

- /exec

show hardware capacity interface

show hardware capacity interface [**__readonly__ TABLE_module_drops** *module_drops tx_drops rx_drops max_tx_port max_rx_port* **TABLE_module_buffers** *module_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
__readonly__	Read Only
module_drops	Type: uinteger Module number for Tx/Rx drops
TABLE_module_drops	show module
tx_drops	Type: longlong Tx drops
rx_drops	Type: longlong Rx drops
max_tx_port	Type: uinteger Port with max Tx drops
max_rx_port	Type: uinteger Port with max Rx drops
module_buffers	Type: uinteger Module number for Tx/Rx buffers
TABLE_module_buffers	show module
tx_buffers	Type: uinteger Tx buffers
rx_buffers	Type: uinteger Rx buffers

Command Modes

- /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
__readonly__	
sup_ha_status	
sup_ha_admin_status	Type: uinteger
sup_ha_oper_status	Type: uinteger
dual_sup_hw_state	Type: string
redundancy_state	Type: string
switch_resouces	
TABLE_lcinfo	
mod_num	Type: uinteger
model_num	Type: string
part_num	Type: string
serial_num	Type: string
TABLE_xbarinfo	
mod_num1	Type: uinteger
model_num1	Type: string
part_num1	Type: string
serial_num1	Type: string
TABLE_flash_nvram_info	

mod_num2	Type: uinteger
dev_name	Type: string
total_bytes	Type: string
free_bytes	Type: string
percent_used	Type: string

Command Modes

- /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__	
power_summary	
ps_redun_mode_admin	Mode: Redundant or Non-redundant **Non-Redundant(combined) value: 0** **Redundant value: 1** **Combined(obsolete) value: 2** **Non-Redundant value: 3** **InSrc-Redundant value: 4** **PS-Redundant value: 5**
ps_redun_mode_oper	Mode: Redundant or Non-redundant **Non-Redundant(combined) value: 0** **Redundant value: 1** **Combined(obsolete) value: 2** **Non-Redundant value: 3** **InSrc-Redundant value: 4** **PS-Redundant value: 5**
power_total	Type: string

power_rsvd	Type: string
power_rsvd_percent	Type: string
power_given_mod	Type: string
power_given_mod_percent	Type: string
power_avail	Type: string
power_avail_percent	Type: string
power_out_actual_draw	Type: string Total Power Output, Actuals
power_input_actual_draw	Type: string Total Power Input, Actuals

Command Modes

- /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 *Not available in this release.*
mac-learning	MAC Learning
module	Specify a module number
module	Type: integer Specify a module number
__readonly__	
TABLE_module	
module_num	Type: integer Specify a module number
port_group	Type: string
mac_learning	Type: string

Command Modes

- /exec

show hardware feature-capability

show hardware feature-capability [detailed] [**__readonly__** [**TABLE_feature_support** *feature_name* [**TABLE_module_support** *mod_inst support*]]]

Syntax Description

show	Show running system information
hardware	Show hardware information
feature-capability	show registered features supported
detailed	detailed
__readonly__	
TABLE_feature_support	show features supported
feature_name	Type: string feature name
TABLE_module_support	show registered features supported
mod_inst	Type: string module instance
support	Type: string support details

Command Modes

- /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	Hardware forwarding
interface	Interface
statistics	Statistics
mode	Statistics mode
__readonly__	
system	
sysmode	Type: string
TABLE_module	
module	Type: integer Specify a module number
modmode	Type: string

Command Modes

- /exec

show hardware forwarding multicast fabric-path ingress

show hardware forwarding multicast fabric-path ingress *ing-intf* {**vlan** *vlan*| **ethertype** *ethertype*| **src-mac** *src-mac*| **dst-mac** *dst-mac*| **src-ip** *src-ip*| **src-ipv6** *src-ipv6*| **dst-ip** *dst-ip*| **dst-ipv6** *dst-ipv6*| **src-port** *src-port*| **dst-port** *dst-port*}+ [**__readonly__ module** [*module_num rbh*]]

Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	Show hardware information for forwarding path
multicast	Show hardware information for multicast forwarding
fabric-path	Show hardware information for multicast forwarding *Not available in this release.*
ingress	Ingress interface for multicast traffic
ing-intf	Type: interface
vlan	VLAN if switchport
vlan	Type: vlan
ethertype	Ethertype of the packet stream
ethertype	Type: hex
src-mac	Source MAC Address
src-mac	Type: ethernet
dst-mac	Destination MAC Address
dst-mac	Type: ethernet
src-ip	Source IPv4 address
src-ip	Type: ipaddr
src-ipv6	Source IPv6 address
src-ipv6	Type: ipv6addr
dst-ip	Destination IPv4 address
dst-ip	Type: ipaddr

dst-ipv6	Destination IPv6 address
dst-ipv6	Type: ipv6addr
src-port	Source L4 port
src-port	Type: integer
dst-port	Destination l4 port
dst-port	Type: integer
__readonly__	
module	
module_num	Type: integer
rbh	Type: integer

Command Modes

- /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	Show hardware information for forwarding path
ip	IP *Not available in this release.*
verify	Show IP packet verification checks enabled in hardware *Not available in this release.*
module	Specify a module number
module	Type: integer Specify a module number
__readonly__	
info_str	Type: string IDS Check Stats

Command Modes

- /exec

show hardware mac address-table

show hardware mac address-table *module* [**static**| **dynamic**] [**address** *mac-addr*| **interface** *interface-name*| **vlan** *id*| **vdc** *vdc*| **fe** *feid*]+ [**bd** *bd_id*] [**__readonly__** *l2entry header*]

Syntax Description

show	show
hardware	Show hardware information
mac	MAC configuration commands
address-table	MAC Address Table
module	Type: integer min: 1 max: 16 Module Number
static	Display Static Entries
dynamic	Display Dynamic Entries
address	address
mac-addr	Type: ethernet MAC Address
interface	Interface
interface-name	Type: interface Interface name
vlan	VLAN
id	Type: integer min: 1 max: 4094 VLAN ID
vdc	VDC ID
vdc	Type: integer min: 1 max: 16 VDC ID value
fe	Forwarding Engine Instance ID(Zero based)

feid	Type: integer min: 0 max: 15 FE ID value
bd	Bridge Domain
bd_id	Type: integer min: 1 max: 16384 BD ID value
__readonly__	
header	Type: string Header
l2entry	Type: string L2 Entry String

Command Modes

- /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	Specify a module number *Not available in this release.*
module	Type: integer Specify a module number
__readonly__	
TABLE_qos_eoq_stats_class	the xml qos_eoq_stats_class configuration
eoq-stats-class-desc	Type: string selected class description

Command Modes

- /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	Specify a module number *Not available in this release.*
module	Type: integer Specify a module number
__readonly__	
TABLE_qos_ns_buffer_profile	the xml qos_ns_buffer_profile configuration
buff-prof-desc	Type: string buffer profile description

Command Modes

- /exec

show hardware qos ns-mcq3-alias

show hardware qos ns-mcq3-alias [**module** *module*] [**__readonly__ TABLE_qos_ns_mcq3_alias** *module ns-mcq3-alias-desc*]

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show QoS related information
ns-mcq3-alias	Show NS mc-queue-3 alias class selection config *Available only in the 9300 series.*
module	Specify a module number *Not available in this release.*
module	Type: integer Specify a module number
__readonly__	
TABLE_qos_ns_mcq3_alias	the xml qos_ns_mcq3_alias configuration
ns-mcq3-alias-desc	Type: string selected class description

Command Modes

- /exec

show hardware rate-limiter

show hardware rate-limiter [**module** *module*] [**layer-3** {*l3-opts*| **multicast** *mcast-opts*}| **layer-2** *l2-opts*| *opts*| **f1** *f1-opts*] [**__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	Layer-3 control and Routed packets
l3-opts	**glean value: 3** Glean traffic
multicast	Multicast data packets
mcast-opts	**local-groups value: 5** Data packets punted for initiating SPT join
layer-2	Layer-2 control and Bridged packets *Not available in this release.*
l2-opts	**storm-control value: 7** Packets flooded in VLAN **port-security value: 12** Packets violating MAC restrictions on the ingress interface **mcast-snooping value: 13** IGMP Snoop packets for L2 Multicast **vpc-low value: 14** Control packets over vPC low q **l2pt value: 15** Layer2 tunnel protocol **vpc-peer-gw value: 21** Traffic to be redirected to vPC peer **lisp-map-cache value: 22** Traffic to be redirected to LISP peer

opts	**access-list-log value: 8** Packets copied to supervisor for access-list logging **bfd value: 23** BFD protocol traffic **exception value: 24** Catch-all exception traffic
f1	Control packets from F1 modules to supervisor *Not available in this release.*
f1-opts	**rl-1 value: 16** STP and Fabricpath-ISIS **rl-2 value: 17** L3-ISIS and OTV-ISIS **rl-3 value: 18** UDLD, LACP, CDP and LLDP **rl-4 value: 19** Q-in-Q and ARP request **rl-5 value: 20** IGMP, NTP, DHCP-Snoop, Port-Security and Mgmt traffic
module	Specify a module number
module	Type: integer Specify a module number
__readonly__	
TABLE_hardware_rate_limiter	the xml Rate-Limiter configuration and statistics
rate-limit-class	Type: integer the xml rate limiter class
class-descr	Type: string class description
module	Type: integer the xml module number
rate-limit-configured	Type: integer the xml rate-limit-configured

rate-limit-allowed	Type: longlong the xml rate-limit-allowed
rate-limit-dropped	Type: longlong the xml rate-limit-dropped
rate-limit-total	Type: longlong the xml rate-limit-total

Command Modes

- /exec

show hardware rl snmp class-id

show hardware rl snmp class-id *class-id* [**__readonly__ TABLE-classRateLimiterTable** *class-id-out class-descr*]

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
class-id	rate-limiter class-id
class-id	Type: integer rate-limiter class
__readonly__	
TABLE-classRateLimiterTable	Class Rate Limiter Table
class-id-out	Type: integer class if out
class-descr	Type: string class description

Command Modes

- /exec

show hardware rl snmp global class-id

show hardware rl snmp global class-id *class-id* [**__readonly__ TABLE-globalRateLimiterTable** *class-id-out rate-limit-configured rate-limit-allowed rate-limit-dropped rate-limit-total*]

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
global	Show Global information
class-id	rate-limiter class-id
class-id	Type: integer rate-limiter class
__readonly__	
TABLE-globalRateLimiterTable	Global Rate Limiter Table
class-id-out	Type: integer class if out
rate-limit-configured	Type: integer rate-limit-configured
rate-limit-allowed	Type: longlong rate-limit-allowed
rate-limit-dropped	Type: longlong rate-limit-dropped
rate-limit-total	Type: longlong rate-limit-total

Command Modes

- /exec

show hardware rl snmp local snmp-index class-id

show hardware rl snmp local snmp-index *snmp-index* **class-id** *class-id* [**__readonly__ TABLE-localRateLimiterTable** *snmp-index-out class-id-out rate-limit-configured rate-limit-configured-source rate-limit-allowed rate-limit-dropped rate-limit-total*]

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
local	Show Local information
snmp-index	snmp physical index
snmp-index	Type: integer physical index
class-id	rate-limiter class-id
class-id	Type: integer rate-limiter class
__readonly__	
TABLE-localRateLimiterTable	Local Rate Limiter Table
snmp-index-out	Type: integer snmp index out
class-id-out	Type: integer class if out
rate-limit-configured	Type: integer rate-limit-configured
rate-limit-configured-source	Type: integer rate-limit-configured-source
rate-limit-allowed	Type: longlong rate-limit-allowed

rate-limit-dropped	Type: longlong rate-limit-dropped
rate-limit-total	Type: longlong rate-limit-total

Command Modes

- /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__	
dnslookup	Type: string dns lookup enable status
dnsnameservice	Type: string name service
TABLE_vrf	vrf domain servers
vrfname	Type: string vrf name
defaultdomains	Type: string default domain
additionaldomainserver	Type: string additionaldomain
domainservers	Type: string domain server
nameservice	Type: string name service
dhcpdomains	Type: string dhcp domains
dhcpdomainservers	Type: string dhcpservers
TABLE_dnsconfigvrf	dns config vrf

dnsvrfname	Type: string vrfname
usevrf	Type: string usevrf
token	Type: string token
TABLE_dnsconfigvrfconfig	dns config vrf config
config	Type: string token
TABLE_hosts	all configured dns hosts
host	Type: string xml host information
address	Type: string xml address information

Command Modes

- /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_vip_sec_v6 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 sh_num_track_obj* **TABLE_grp_track_obj** *sh_track_obj sh_track_obj_state sh_track_obj_prio 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	Groups on this interface
interface-id	Type: interface Interface
active	Groups in active state
init	Groups in init state
listen	Groups in listen state
standby	Groups in standby state
learn	Groups in learn state
speak	Groups in speak state
group	Group number
group-number	Type: integer min: 0 max: 4095 Group Number
all	Include groups in disabled state
brief	Brief output

detail	Detailed output
ipv4	HSRP V4 Groups
ipv6	HSRP V6 Groups
all	Display all VIPs
__readonly__	Read only
show_hsrp_start	Type: uinteger Show hsrp start
TABLE_grp_detail	Group table detail
sh_if_index	Type: interface Interface type and number
sh_group_num	Type: uinteger Group number
sh_group_state	HSRP state **Disabled value: 2** **Active value: 8** **Initial value: 3** **Listen value: 5** **Speak value: 6** **Standby value: 7**
sh_state_reason	Type: string Reason
sh_group_type	Group type **v4 value: 0** **v6 value: 1**
sh_group_version	Group version **v1 value: 1** **v2 value: 2**

sh_prio	Type: uinteger Priority
sh_cfg_prio	Type: uinteger Configured priority
sh_fwd_lower_threshold	Type: uinteger Lower threshold value
sh_fwd_upper_threshold	Type: uinteger Upper threhsold value
sh_can_forward	Type: bool Current forwarding status
sh_preempt	Type: bool Preemption enabled/not
sh_preempt_min_delay	Type: uinteger Preemption min delay
sh_preempt_min_delay_active	Type: uinteger Active preemption min delay
sh_preempt_reload_delay	Type: uinteger Preemption reload delay
sh_preempt_reload_delay_active	Type: uinteger Active preemption reload delay
sh_preempt_sync_delay	Type: uinteger Preemption sync delay
sh_preempt_sync_delay_active	Type: uinteger Active preemption sync delay
sh_cur_hello	Type: uinteger Current hello time
sh_cur_hello_attr	Hello time in ms/not **msec value: 0** **sec value: 1**

sh_cfg_hello	Type: uinteger Configured hello time
sh_cfg_hello_attr	Hello time in ms/not **msec value: 0** **sec value: 1**
sh_active_hello	Type: string Active hello time
sh_cur_hold	Type: uinteger Current hold time
sh_cur_hold_attr	Hello time in ms/not **msec value: 0** **sec value: 1**
sh_cfg_hold	Type: uinteger Configured hold time
sh_cfg_hold_attr	Hello time in ms/not **msec value: 0** **sec value: 1**
sh_vip	Type: ipaddr Virtual IP address
sh_vip_v6	Type: ipv6addr Virtual IPv6 address
sh_vip_attr	Virtual IP address attribute **config value: 0** **learnt value: 1** **autoconfig value: 2**
sh_num_vip_sec	Type: uinteger Number of Secondary virtual IP address

TABLE_grp_vip_sec	Group secondary ip address
sh_vip_sec	Type: ipaddr Secondary virtual IP address
sh_vip_sec_v6	Type: ipv6addr Gropu secondary ipv6 address
sh_active_router_addr	Type: ipaddr Active router address
sh_active_router_addr_v6	Type: ipv6addr Active router V6 address
sh_active_router_prio	Type: uinteger Active router priority
sh_active_router_timer	Type: string Active router expiry timer
sh_standby_router_addr	Type: ipaddr Standby router address
sh_standby_router_addr_v6	Type: ipv6addr Standby router V6 address
sh_standby_router_prio	Type: uinteger Standby router priority
sh_authentication_type	Authentication type **text value: 0** **md5 value: 1**
sh_authentication_data	Type: string Authentication data
sh_keystring_attr	Keystring attribute **unencrypted value: 0** **hidden value: 1**
sh_keystring_timeout	Type: uinteger Keystring timeout

sh_keystring_cur_valid	Type: string Keystring current valid time
sh_vmac	Type: ethernet Virtual MAC
sh_vmac_attr	Virtual MAC attribute **Interface MAC - use-bia enabled value: 0** **Configured MAC value: 1** **Default MAC value: 2**
sh_num_of_state_changes	Type: uinteger Number of state changes
sh_last_state_change	Type: uinteger Last state change time
sh_num_of_total_state_changes	Type: uinteger Number of total state changes
sh_last_total_state_change	Type: uinteger Last total state change time
sh_num_track_obj	Type: uinteger Number of tracked objects
TABLE_grp_track_obj	Group tracked objects
sh_track_obj	Type: uinteger Tracked object
sh_track_obj_state	State of tracked object **UP value: 1** **DOWN value: 0**
sh_track_obj_prio	Type: uinteger Tracked object priority decrement
sh_ip_redund_name	Type: string IP redundancy name

sh_ip_redund_name_attr	IP redundancy name attribute **Default value: 0** **Configured value: 1**
show_hsrp_end	Type: uinteger End of Group

Command Modes

- /exec

show hsrp bfd-sessions

show hsrp bfd-sessions [**interface** *interface-id* [**to** *ipaddress*]] [**__readonly__ TABLE_bfd_sess** *interface list_size* {*src_addr*| *src_addr_v6*} {*dst_addr*| *dst_addr_v6*} *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	Groups on this interface
interface-id	Type: interface Interface
to	To IP address
ipaddress	Type: ipaddr Sessions to IP address
__readonly__	
TABLE_bfd_sess	
interface	Type: interface Interface
list_size	Type: uinteger List size
src_addr	Type: ipaddr IPv4 Source address
dst_addr	Type: ipaddr IPv4 Destination address
src_addr_v6	Type: ipv6addr IPv6 Source address
dst_addr_v6	Type: ipv6addr IPv6 Destination address

ref_count	Type: uinteger Ref count
TABLE_ref_groups	
ref_group_id	Type: uinteger Group id
TABLE_hist_groups	
hist_group_id	Type: uinteger Group id
hist_operation	Type: string Operation
hist_rel_time	Type: string Relative time
hist_abs_time	Type: string Absolute time
hist_ref_count	Type: uinteger Ref count
hist_group_state	Type: string Group state
hist_status	Type: string Status
hist_op_reason	Type: string Op reason

Command Modes

- /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	Groups on this interface
interface-id	Type: interface Interface
__readonly__	
TABLE_delay	
interface	Type: interface Interface
min_delay	Type: uinteger Min delay
reload_delay	Type: uinteger Reload delay

Command Modes

- /exec

show hsrp ext-mib sec-addr

show hsrp ext-mib sec-addr [*ifindex-in group-id-in ip1-in ip2-in ip3-in ip4-in*] [**__readonly__ TABLE_cHsrpExtSecAddrTable** *ifindex-out group-id-out ip1-out ip2-out ip3-out ip4-out cHsrpExtSecAddrTable cHsrpExtSecAddrAddress cHsrpExtSecAddrRowStatus*]

Syntax Description

__readonly__	Read Only
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
ext-mib	Show hsrp extended mib specific configuration
sec-addr	Secondary virtual address
ifindex-in	Type: uinteger hsrp group ifindex
group-id-in	Type: uinteger hsrp group id
group-id-out	Type: uinteger hsrp group num
ifindex-out	Type: uinteger hsrp group interface index
ip1-in	Type: uinteger first part of vip
ip2-in	Type: uinteger second part of vip
ip3-in	Type: uinteger third part of vip
ip4-in	Type: uinteger fourth part of vip
ip1-out	Type: uinteger first part of vip out

ip2-out	Type: uinteger second part of vip out
ip3-out	Type: uinteger third part of vip out
ip4-out	Type: uinteger fourth part of vip out
TABLE_cHsrpExtSecAddrTable	Hsrp extended mib secondary address table
cHsrpExtSecAddrTable	Type: uinteger Hsrp extended mib Secondary address table
cHsrpExtSecAddrAddress	Type: uinteger Hsrp extended mib Secondary Address
cHsrpExtSecAddrRowStatus	Type: uinteger Hsrp extended mib secondary address row status

Command Modes

- /exec

show hsrp ext-mib use-bia

show hsrp ext-mib use-bia [*ifindex-in*] [**__readonly__ TABLE_cHsrpExtIfEntry** *ifindex-out cHsrpExtIfUseBIA cHsrpExtIfRowStatus*]

Syntax Description

__readonly__	Read Only
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
ext-mib	Show hsrp extended mib specific configuration
use-bia	Use BIA
ifindex-in	Type: uinteger hsrp group ifindex
ifindex-out	Type: uinteger hsrp group ifindex
TABLE_cHsrpExtIfEntry	Use BIA info table
cHsrpExtIfUseBIA	Type: uinteger Use BIA enabled
cHsrpExtIfRowStatus	Type: uinteger Use BIA row status

Command Modes

- /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
__readonly__	
switchover_notify_rxed	Type: string Switchover notification received (1 => active)
bfd_enabled	Type: string BFD status
num_of_groups	Type: uinteger Total number of groups
num_of_v4_v1_groups	Type: uinteger Number of IPv4 V1 groups
num_of_v4_v2_groups	Type: uinteger Number of IPv4 V2 groups
num_of_v6_v2_groups	Type: uinteger Number of IPv6 V2 groups
num_of_active_groups	Type: uinteger Number of active groups
num_of_standby_groups	Type: uinteger Number of standby groups
num_of_listen_groups	Type: uinteger Number of listen groups

num_of_v6_active_groups	Type: uinteger Number of IPv6 active groups
num_of_v6_standby_groups	Type: uinteger Number of IPv6 standby groups
num_of_v6_listen_groups	Type: uinteger Number of IPv6 listen groups
num_of_hsrp_enabled_ifs	Type: uinteger Number of HSRP enabled interfaces
counter_pkts_tx	Type: uinteger Number of packet transmission successes
counter_pkts_tx_failure	Type: uinteger Number of packet transmission failure
counter_pkts_in	Type: uinteger Number of packets received successfully
counter_pkts_bad_vr	Type: uinteger Number of packets for unknown groups
counter_mts_rx	Type: uinteger Number of MTS messages received

Command Modes

- /exec

I Show Commands

- show inactive-if-config log, page 567
- show incompatibility-all nxos, page 568
- show incompatibility nxos, page 569
- show install active, page 570
- show install all failed-standby, page 571
- show install all failure-reason, page 572
- show install all impact, page 573
- show install all impact epld, page 574
- show install all status, page 575
- show install committed, page 576
- show install epld status, page 577
- show install impact (sysmgr_upgradecli), page 578
- show install impact (sysmgr_upgradecli), page 579
- show install impact detail, page 580
- show install inactive, page 581
- show install log, page 582
- show install packages, page 584
- show install pkg-info, page 585
- show install request, page 587
- show interface (if_manager), page 588
- show interface (if_manager), page 617
- show interface (if_manager), page 658
- show interface (if_manager), page 697
- show interface (if_manager), page 728

- show interface (if_manager), page 798
- show_interface, page 835
- show interface brief (if_manager), page 836
- show interface brief (if_manager), page 867
- show interface brief (if_manager), page 868
- show interface brief (if_manager), page 871
- show interface brief (if_manager), page 889
- show interface brief (if_manager), page 918
- show interface cable-diagnostics-tdr, page 936
- show interface capabilities (if_manager), page 940
- show interface capabilities (if_manager), page 945
- show interface counters (if_manager), page 951
- show interface counters (if_manager), page 953
- show interface counters (if_manager), page 955
- show interface counters (if_manager), page 957
- show interface counters (if_manager), page 960
- show interface counters brief, page 962
- show interface counters detailed (if_manager), page 964
- show interface counters detailed (if_manager), page 969
- show interface counters detailed (if_manager), page 971
- show interface counters detailed (if_manager), page 981
- show interface counters detailed all (if_manager), page 999
- show interface counters detailed all (if_manager), page 1000
- show interface counters detailed all (if_manager), page 1005
- show interface counters detailed all (if_manager), page 1007
- show interface counters detailed all (if_manager), page 1011
- show interface counters detailed all (if_manager), page 1024
- show interface counters errors (if_manager), page 1044
- show interface counters errors (if_manager), page 1046
- show interface counters errors (if_manager), page 1047
- show interface counters errors fex, page 1049
- show interface counters fex, page 1051
- show interface counters snmp, page 1053

- show interface counters snmp fex, page 1055
- show interface counters trunk, page 1057
- show interface debounce (if_manager), page 1058
- show interface debounce (if_manager), page 1059
- show interface description (if_manager), page 1060
- show interface description (if_manager), page 1062
- show interface description (if_manager), page 1064
- show interface description (if_manager), page 1066
- show interface description (if_manager), page 1068
- show interface description (svi), page 1070
- show interface fcoe, page 1071
- show interface fex-conf, page 1072
- show interface fex-fabric, page 1073
- show interface fex-intf, page 1075
- show interface flowcontrol (if_manager), page 1076
- show interface flowcontrol (if_manager), page 1078
- show interface flowcontrol fex, page 1080
- show interface mac-address (if_manager), page 1082
- show interface mac-address (if_manager), page 1083
- show interface priority-flow-control, page 1084
- show interface private-vlan mapping, page 1086
- show interface pruning, page 1088
- show interface snmp-ifindex, page 1089
- show interface status (if_manager), page 1090
- show interface status (if_manager), page 1107
- show interface status (if_manager), page 1124
- show interface status (if_manager), page 1167
- show interface status (if_manager), page 1210
- show interface status (svi), page 1227
- show interface status err-disabled (if_manager), page 1228
- show interface status err-disabled (if_manager), page 1271
- show interface status err-vlans (if_manager), page 1314
- show interface status err-vlans (if_manager), page 1318

- show interface status fex, page 1322
- show interface switchport (if_manager), page 1326
- show interface switchport (if_manager), page 1329
- show interface transceiver (if_manager), page 1332
- show interface transceiver (if_manager), page 1340
- show interface transceiver fex-fabric (if_manager), page 1347
- show interface transceiver fex-fabric (if_manager), page 1350
- show interface trunk (if_manager), page 1357
- show interface trunk (if_manager), page 1359
- show inventory, page 1361
- show inventory fex, page 1363
- show ip (bgp), page 1364
- show ip (bgp), page 1366
- show ip adjacency, page 1368
- show ip arp, page 1371
- show ip arp cache, page 1373
- show ip arp client, page 1374
- show ip arp inspection, page 1375
- show ip arp inspection interfaces, page 1377
- show ip arp inspection log, page 1378
- show ip arp inspection statistics, page 1379
- show ip arp inspection vlan, page 1381
- show ip arp off-list, page 1383
- show ip arp snmp pttree, page 1384
- show ip arp statistics, page 1385
- show ip arp tunnel-statistics, page 1389
- show ip arp vaddr, page 1391
- show ip arp vpc-statistics, page 1392
- show ip as-path-access-list, page 1395
- show ip cache, page 1396
- show ip client, page 1397
- show ip community, page 1399
- show ip community-list, page 1401

- show ip dampening, page 1402
- show ip dhcp global statistics, page 1404
- show ip dhcp relay, page 1406
- show ip dhcp relay address, page 1408
- show ip dhcp relay statistics, page 1409
- show ip dhcp snooping, page 1412
- show ip dhcp snooping binding, page 1414
- show ip dhcp snooping statistics, page 1416
- show ip dns source-interface, page 1419
- show ip dns source-interface vrf all, page 1420
- show ip eigrp route-map statistics redistribute, page 1421
- show ip extcommunity, page 1424
- show ip extcommunity-list, page 1426
- show ip fib adjacency, page 1427
- show ip fib distribution, page 1428
- show ip fib distribution capture, page 1429
- show ip fib distribution clients, page 1430
- show ip fib distribution mroute, page 1431
- show ip fib distribution multicast, page 1433
- show ip fib distribution multicast outgoing-interface-list, page 1434
- show ip fib distribution state, page 1435
- show ip fib interfaces, page 1436
- show ip fib mroute, page 1437
- show ip fib mroute txlist, page 1440
- show ip fib route, page 1441
- show ip flap-statistics, page 1444
- show ip ftm statistics, page 1446
- show ip igmp, page 1447
- show ip igmp interfaceshow ip igmp interface, page 1449
- show ip igmp local-groups, page 1453
- show ip igmp policy statistics reports, page 1455
- show ip igmp snooping, page 1456
- show ip igmp snooping explicit-tracking, page 1458

- show ip igmp snooping groups, page 1459
- show ip igmp snooping lookup-mode, page 1462
- show ip igmp snooping mac-oif, page 1463
- show ip igmp snooping mrouter, page 1464
- show ip igmp snooping otv vlan brief, page 1466
- show ip igmp snooping pw vlan brief, page 1467
- show ip igmp snooping querier, page 1468
- show ip igmp snooping snmp mib adminMode, page 1469
- show ip igmp snooping snmp mib aliasingMode, page 1470
- show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus, page 1471
- show ip igmp snooping snmp mib explicitTrackingTable, page 1472
- show ip igmp snooping snmp mib fallBackTime, page 1473
- show ip igmp snooping snmp mib fastBlockEnabled, page 1474
- show ip igmp snooping snmp mib fastleaveenabled, page 1475
- show ip igmp snooping snmp mib filterStatsTable, page 1476
- show ip igmp snooping snmp mib ifAccessGroupTable, page 1478
- show ip igmp snooping snmp mib ifConfigTable, page 1480
- show ip igmp snooping snmp mib ifLimitTable, page 1481
- show ip igmp snooping snmp mib ifLimitTotalTable, page 1483
- show ip igmp snooping snmp mib igmpsnoopingenabled, page 1485
- show ip igmp snooping snmp mib iterfaceStatsTable, page 1486
- show ip igmp snooping snmp mib lastMemeberQueryCount, page 1489
- show ip igmp snooping snmp mib lastMemeberQueryInterval, page 1490
- show ip igmp snooping snmp mib leaveQueryType, page 1491
- show ip igmp snooping snmp mib mcastGroupTable, page 1492
- show ip igmp snooping snmp mib mcastRouterCfgTable, page 1494
- show ip igmp snooping snmp mib mcastRouterConfigTable, page 1496
- show ip igmp snooping snmp mib multicastGroupConfigTable, page 1498
- show ip igmp snooping snmp mib multicastGroupPortListTable, page 1500
- show ip igmp snooping snmp mib multicastGroupTable, page 1502
- show ip igmp snooping snmp mib operMode, page 1504
- show ip igmp snooping snmp mib querierTable, page 1505
- show ip igmp snooping snmp mib reportsuppressionenabled, page 1507

- show ip igmp snooping snmp mib robustnessVariable, page 1508
- show ip igmp snooping snmp mib routerAlertCheckEnabled, page 1509
- show ip igmp snooping snmp mib sourceOnlyEntryAgingTime, page 1510
- show ip igmp snooping snmp mib sourceOnlyLearningEnabled, page 1511
- show ip igmp snooping snmp mib tcnFloodQueryCount, page 1512
- show ip igmp snooping snmp mib timeToLiveCheckEnabled, page 1513
- show ip igmp snooping snmp mib topoChanageQuerySolicitEnabled, page 1514
- show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus, page 1515
- show ip igmp snooping snmp mib v3SnoopingSupport, page 1516
- show ip igmp snooping snmp mib vlanconfigtable, page 1517
- show ip igmp snooping snmp mib vlanFilterConfigTable, page 1519
- show ip igmp snooping statistics (igmp), page 1521
- show ip igmp snooping statistics (igmp), page 1522
- show ip igmp vrf all, page 1525
- show ip interface, page 1526
- show ip lisp data-cache, page 1529
- show ip load-sharing, page 1530
- show ip local-pt, page 1531
- show ip local policy, page 1532
- show ip logging, page 1533
- show ip msdp, page 1534
- show ip msdp count, page 1536
- show ip msdp mesh-group, page 1538
- show ip msdp peer, page 1540
- show ip msdp policy statistics sa-policy, page 1543
- show ip msdp rpf, page 1544
- show ip msdp sources, page 1546
- show ip msdp statistics, page 1548
- show ip msdp summary, page 1550
- show ip multicast vrf, page 1552
- show ip neighbors, page 1554
- show ip nexthop, page 1556
- show ip nexthop-database, page 1557

- show ip ospf, page 1558
- show ip ospf border-routers, page 1564
- show ip ospf database, page 1566
- show ip ospf database database-summary, page 1569
- show ip ospf database detail, page 1571
- show ip ospf ha, page 1577
- show ip ospf interface, page 1579
- show ip ospf interface brief, page 1583
- show ip ospf lsa-content-changed-list, page 1585
- show ip ospf memory, page 1587
- show ip ospf mpls ldp interface, page 1589
- show ip ospf neighbors, page 1591
- show ip ospf neighbors detail, page 1593
- show ip ospf neighbors summary, page 1597
- show ip ospf policy statistics, page 1599
- show ip ospf request-list, page 1601
- show ip ospf retransmission-list, page 1603
- show ip ospf route, page 1605
- show ip ospf route summary, page 1608
- show ip ospf sham-links, page 1611
- show ip ospf statistics, page 1617
- show ip ospf summary-address, page 1621
- show ip ospf traffic, page 1623
- show ip ospf traps-queue, page 1627
- show ip ospf virtual-links, page 1628
- show ip ospf virtual-links brief, page 1634
- show ip pim bitfield, page 1636
- show ip pim config-sanity, page 1637
- show ip pim group-range, page 1638
- show ip pim lisp encap, page 1640
- show ip pim mdt, page 1641
- show ip pim mdt bgp, page 1643
- show ip pim mdt history interval, page 1644

- show ip pim mdt receive, page 1646
- show ip pim mdt send, page 1648
- show ip pim oif-list, page 1650
- show ip pim policy statistics (pim), page 1652
- show ip pim policy statistics (pim), page 1654
- show ip pim route, page 1655
- show ip pim rp-hash, page 1658
- show ip pim rp, page 1660
- show ip pim statistics, page 1663
- show ip policy, page 1666
- show ip prefix-list (bgp), page 1667
- show ip prefix-list (rpm), page 1669
- show ip process, page 1671
- show ip received-paths, page 1673
- show ip rip policy statistics redistribute, page 1674
- show ip router-id, page 1676
- show ip rsvp, page 1677
- show ip rsvp authentication, page 1680
- show ip rsvp counters, page 1682
- show ip rsvp fast-reroute, page 1689
- show ip rsvp hello client lsp, page 1692
- show ip rsvp hello client neighbor, page 1694
- show ip rsvp hello graceful-restart, page 1695
- show ip rsvp hello instance, page 1697
- show ip rsvp interface, page 1699
- show ip rsvp session, page 1703
- show ip rsvp signalling rate-limit, page 1705
- show ip rsvp signalling refresh interval, page 1706
- show ip rsvp signalling refresh misses, page 1707
- show ip rsvp signalling refresh reduction, page 1708
- show ip stats, page 1709
- show ip telnet source-interface, page 1710
- show ip telnet source-interface vrf all, page 1711

- show ip tftp source-interface, page 1712
- show ip tftp source-interface vrf all, page 1713
- show ip traffic, page 1714
- show ip txlist, page 1719
- show ip verify source, page 1720
- show ip vrf, page 1721
- show ipv6 (bgp), page 1724
- show ipv6 (bgp), page 1726
- show ipv6 (am), page 1727
- show ipv6 (bgp), page 1730
- show ipv6 cache, page 1731
- show ipv6 client, page 1732
- show ipv6 community, page 1734
- show ipv6 dampening, page 1736
- show ipv6 dhcp relay, page 1738
- show ipv6 dhcp relay statistics, page 1740
- show ipv6 eigrp route-map statistics redistribute, page 1743
- show ipv6 extcommunity, page 1746
- show ipv6 flap-statistics, page 1748
- show ipv6 fragments, page 1749
- show ipv6 global traffic, page 1750
- show ipv6 icmp, page 1753
- show ipv6 icmp ndp, page 1755
- show ipv6 icmp off-list, page 1756
- show ipv6 icmp process sdb, page 1757
- show ipv6 icmp snmp pttree, page 1758
- show ipv6 icmp vaddr, page 1759
- show ipv6 icmp vpc-statistics, page 1764
- show ipv6 icmp vrf, page 1767
- show ipv6 interface, page 1773
- show ipv6 interface global, page 1778
- show ipv6 lisp data-cache, page 1779
- show ipv6 local-pt, page 1780

- show ipv6 local policy, page 1781
- show ipv6 mld groups, page 1782
- show ipv6 mld local-groups, page 1784
- show ipv6 mld vrf all, page 1786
- show ipv6 mtu, page 1787
- show ipv6 ndp, page 1789
- show ipv6 neighbor static, page 1790
- show ipv6 neighbors, page 1791
- show ipv6 nexthop, page 1793
- show ipv6 nexthop-database, page 1794
- show ipv6 pim bitfield, page 1795
- show ipv6 pim df, page 1796
- show ipv6 pim embed-rp, page 1798
- show ipv6 pim group-range, page 1799
- show ipv6 pim interfaceshow ipv6 pim interface, page 1801
- show ipv6 pim neighbor, page 1805
- show ipv6 pim oif-list, page 1807
- show ipv6 pim policy statistics, page 1808
- show ipv6 pim route, page 1809
- show ipv6 pim rp-hash, page 1810
- show ipv6 pim rp, page 1812
- show ipv6 pim statistics, page 1815
- show ipv6 pim vrf, page 1818
- show ipv6 policy, page 1819
- show ipv6 prefix-list, page 1820
- show ipv6 process, page 1822
- show ipv6 process sdb, page 1824
- show ipv6 received-paths, page 1825
- show ipv6 regexp, page 1826
- show ipv6 rip policy statistics redistribute, page 1827
- show ipv6 routers, page 1829
- show ipv6 static-route, page 1831
- show ipv6 statistics, page 1833

- show ipv6 summary, page 1834
- show ipv6 traffic, page 1835
- show isis (isis), page 1837
- show isis (isis), page 1841
- show isis adjacency, page 1843
- show isis csnp, page 1847
- show isis database, page 1849
- show isis ipv6 redistribute route, page 1854
- show isis ipv6 route-map statistics, page 1857
- show isis lsp free-list, page 1859
- show isis mesh-group, page 1861
- show isis redistribute route, page 1863
- show isis route-map statistics, page 1865
- show isis routeshow isis ipv6 routeshow isis route is, page 1867
- show isis rrm, page 1871
- show isis spf-adjacency, page 1873
- show isis spf-log, page 1875
- show isis srm, page 1877
- show isis ssn, page 1879
- show isis statistics, page 1881
- show isis summary-addressshow isis ipv6 summary-address, page 1883
- show isis tlv overflow-list, page 1885
- show isis topology, page 1886
- show isis traffic, page 1887

show inactive-if-config log

show inactive-if-config log

Syntax Description

show	Show running system information
inactive-if-config	Current clear inactive if config log
log	Displays execution log of last clear inactive if config command

Command Modes

- /exec

show incompatibility-all nxos

show incompatibility-all nxos *uri0* [**__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
nxos	show incompatibilities with an image
uri0	Type: uri Enter image uri
__readonly__	
TABLE_incompat_all	Show incompatibility system table
Str1	Type: string
Serv	Type: string
Cap	Type: string
Desc	Type: string
Req	Type: string
Enable	Type: string
Dynamic	Type: string

Command Modes

- /exec

show incompatibility nxos

show incompatibility nxos *uri0* [**__readonly__** [**TABLE_incompat_sys** *Str1* [*Serv*] [*Cap*] [*Desc*] [*Req*] [*Enable*]] [*Dynamic*]]

Syntax Description

show	Show running system information
incompatibility	Show incompatible configurations
nxos	show incompatibilities with an image
uri0	Type: uri Enter image uri
__readonly__	
TABLE_incompat_sys	Show incompatibility system table
Str1	Type: string
Serv	Type: string
Cap	Type: string
Desc	Type: string
Req	Type: string
Enable	Type: string
Dynamic	Type: string

Command Modes

- /exec

show install active

show install active [on-reload] [**__readonly__** *curr_kickstart_image curr_system_image* [**TABLE_smu_list** *install_smu_id+*] [**TABLE_module_list** *install_modno* [**TABLE_module_smu_list** *install_module_smu_id*]]]

Syntax Description

show	Show running system information
install	Install related show commands
active	Active packages
on-reload	Activated on next reload
__readonly__	
TABLE_smu_list	
curr_kickstart_image	Type: string
curr_system_image	Type: string
install_smu_id	Type: string
TABLE_module_list	
install_modno	Type: uinteger
TABLE_module_smu_list	
install_module_smu_id	Type: string

Command Modes

- /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__	
TABLE_installFailStandby	Install failed-standby table
Str1	Type: string

Command Modes

- /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__	
TABLE_installFailReason	Install failure-reason table
installFailReasonStr	Type: string

Command Modes

- /exec

show install all impact

show install all impact [**nxos** *uri*]+

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	boot-variable name
uri	Type: uri Enter image uri

Command Modes

- /exec

show install all impact epld

show install all impact epld *uri1*

Syntax Description

show	Show running system information
install	Show the software install status
all	show install all information
impact	show impact of the install all epld command
epld	Show EPLD install information
uri1	Type: uri Local URI containing EPLD Image

Command Modes

- /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 Modes

- /exec

show install committed

show install committed [**__readonly__** *curr_kickstart_image curr_system_image* [**TABLE_smu_list** *install_smu_id*+]]

Syntax Description

show	Show running system information
install	Install related show commands
committed	Committed packages
__readonly__	
TABLE_smu_list	
curr_kickstart_image	Type: string
curr_system_image	Type: string
install_smu_id	Type: string

Command Modes

- /exec

show install epld status

show install epld status

Syntax Description

show	Show running system information
install	Show the software install status
epld	Show EPLD install information
status	Show status of previous EPLD upgrades

Command Modes

- /exec

show install impact (sysmgr_upgradecli)

show install impact *uri0 uri1*

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
uri0	Type: uri Enter system URI
uri1	Type: uri Enter active URI

Command Modes

- /exec

show install impact (sysmgr_upgradecli)

show install impact *uri0*

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
uri0	Type: uri Enter system URI

Command Modes

- /exec

show install impact detail

show install impact *uri0* **detail**

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
uri0	Type: uri Enter system URI
detail	Show detailed install impact of given system image

Command Modes

- /exec

show install inactive

show install inactive [on-reload] [**__readonly__** *curr_kickstart_image curr_system_image* [**TABLE_smu_list** *install_smu_id+*]]

Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
on-reload	Dectivated on next reload
__readonly__	
TABLE_smu_list	
curr_kickstart_image	Type: string
curr_system_image	Type: string
install_smu_id	Type: string

Command Modes

- /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_user install_time* [*install_op*] [[*install_add_package install_add_via* [*install_add_server*]] [*install_add_log_entry*]+] [[*install_remove_status*] [*install_remove_filename*] [*install_remove_log_entry*]+] [[*install_activate_filename*] [*install_activate_log_entry*]+] [[*install_commit_filename*] [*install_commit_log_entry*]+] [[*install_deactivate_filename*] [*install_deactivate_log_entry*]+]]]

Syntax Description

show	Show running system information
install	Install related show commands
log	log
id	Type: integer Install Identifies
from	Starting at this install identifier
id1	Type: integer Install Identifier
detail	Detailed information including impacted processes
reverse	Displays the logs in reverse order
last	Display the logs for last install operation
__readonly__	
current_time	current time
curr_time	Type: string
TABLE_show_log_output	
install_id	Type: uinteger installation operation id
install_user	Type: string
install_time	Type: string

install_op	**add value: 101** **remove value: 102** **commit value: 103** **activate value: 104** **deactivate value: 105**
install_add_package	Type: string
install_add_via	Type: string
install_add_server	Type: string
install_add_log_entry	Type: string
install_remove_status	Type: string
install_remove_filename	Type: string
install_remove_log_entry	Type: string
install_activate_filename	Type: string
install_activate_log_entry	Type: string
install_commit_filename	Type: string
install_commit_log_entry	Type: string
install_deactivate_filename	Type: string
install_deactivate_log_entry	Type: string

Command Modes

- /exec

show install packages

show install packages [**__readonly__** *curr_kickstart_image curr_system_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
packages	All packages
__readonly__	
TABLE_smu_list	
curr_kickstart_image	Type: string
curr_system_image	Type: string
install_smu_id	Type: string
install_smu_state	Type: string
TABLE_module_list	
install_modno	Type: uinteger
install_mod_smu_state	Type: string

Command Modes

- /exec

show install pkg-info

show install pkg-info *pname* [**__readonly__** *image_full_name expiry_date uncompressed_size vendor description build_time build_source platform supersedes+ superseded_by+ prerequisite+ restart_information+ pre_activate_scripts+ post_activate_scripts+ pre_deactivate_scripts+ post_deactivate_scripts+*]

Syntax Description

show	Show running system information
install	Install related show commands
pkg-info	Show package info
pname	Type: string length: 256 Package Name
__readonly__	
image_full_name	Type: string
expiry_date	Type: string
uncompressed_size	Type: uinteger
vendor	Type: string
description	Type: string
build_time	Type: string
build_source	Type: string
platform	Type: string
supersedes	Type: string
superseded_by	Type: string
prerequisite	Type: string
restart_information	Type: string
pre_activate_scripts	Type: string
post_activate_scripts	Type: string
pre_deactivate_scripts	Type: string

post_deactivate_scripts	Type: string

Command Modes

- /exec

show install request

show install request [**__readonly__** *curr_time* [*operation user percent_complete* [*module_percent_complete module_number*]+] [*none*]]

Syntax Description

show	Show running system information
install	Install related show commands
request	Last installation operation
__readonly__	
curr_time	Type: string
operation	Type: string
user	Type: string
percent_complete	Type: uinteger
module_percent_complete	Type: uinteger
module_number	Type: uinteger
none	Type: string

Command Modes

- /exec

show interface (if_manager)

show interface *ifid* **[brief]** [**__readonly__ TABLE_interface** *interface* [*desc*] [*svi_if_index*]
[*svi_admin_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*] [*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_load_interval2*] [*eth_inrate2_bits*]
[*eth_inrate2_pkts*] [*eth_outrate2_bits*] [*eth_outrate2_pkts*] [*eth_load_interval3*] [*eth_inrate3_bits*]
[*eth_inrate3_pkts*] [*eth_outrate3_bits*] [*eth_outrate3_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*]]

Syntax Description

show	Show running system information

interface	Show interface status and information
ifid	Type: interface-mrange Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
desc	Type: string Interface description
svi_if_index	Type: interface Interface
svi_admin_state	**up value: 0** **down value: 1** **administratively down value: 2** **type not supported value: 3**

svi_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

	Inactive - M1 port not allowed in FabricPath-mode VLAN **Transceiver speed does not match the speed configured on the port value: 237** The speed supported by the transceiver does not match the speed configured on the port **Transceiver auth failure value: 285** Transceiver authentication failed on the port **vPC+SwitchIDNotCfgd value: 256** Fabric Path switch ID not configured for vPC+ Peer Link **vPC+PeerLnkNotFabricPath value: 257** vPC+ peer link port is not configured as a Fabric Path port **The transceiver has failed ethernet compliance value: 262** The transceiver has failed ethernet compliance **check speed-group config value: 307** Speed-Group config does not match type of transceiver **suspended(no LACP PDUs) value: 272** Suspended due to no LACP PDUs received from peer
svi_line_proto	**up value: 0** **down value: 1**
svi_hw	Type: string length: 32 Hardware
svi_mac	Type: string length: 32 Address
svi_desc	Type: string Interface Description
svi_ip_addr	Type: ipaddr IP Address
svi_ip_mask	Type: uinteger IP address mask

svi_mtu	Type: uinteger MTU size in bytes
svi_bw	Type: uinteger Bandwidth in kilobits
svi_delay	Type: uinteger Throughput delay (tens of microseconds)
svi_tx_load	Type: uinteger Tx Load
svi_rx_load	Type: uinteger Rx Load
svi_carrier_delay_sec	Type: uinteger carrier delay value in seconds
svi_carrier_delay_msec	Type: uinteger carrier delay value in milli-seconds
svi_arp_type	Type: string ARP type
svi_arp_timeout	Type: string ARP timeout value
svi_time_last_cleared	Type: string Time last cleared
TABLE_sec_vlan	secondary vlans
sec_vlan	Type: vlan vlan id
sec_vlan_type	Type: string secondary vlan type
eth_load_interval1_rx	Type: uinteger interval 1 timer value in sec
eth_inrate1_bits	Type: longlong interval 1 input rate bits/sec

eth_inrate1_pkts	Type: longlong interval 1 input rate pkts/sec
eth_load_interval1_tx	Type: uinteger interval 1 timer value in sec
eth_outrate1_bits	Type: longlong interval 1 output rate bits/sec
eth_outrate1_pkts	Type: longlong interval 1 output rate pkts/sec
eth_load_interval2	Type: uinteger interval 2 timer value in sec
eth_inrate2_bits	Type: longlong interval 2 input rate bits/sec
eth_inrate2_pkts	Type: longlong interval 2 input rate pkts/sec
eth_outrate2_bits	Type: longlong interval 2 output rate bits/sec
eth_outrate2_pkts	Type: longlong interval 2 output rate pkts/sec
eth_load_interval3	Type: uinteger interval 3 timer value in sec
eth_inrate3_bits	Type: longlong interval 3 input rate bits/sec
eth_inrate3_pkts	Type: longlong interval 3 input rate pkts/sec
eth_outrate3_bits	Type: longlong interval 3 output rate bits/sec
eth_outrate3_pkts	Type: longlong interval 3 output rate pkts/sec
eth_l2_ucastpkts	Type: longlong L2 switched ucast pkts

eth_l2_ucastbytes	Type: longlong L2 switched ucast bytes
eth_l2_mcastpkts	Type: longlong L2 switched mcast pkts
eth_l2_mcastbytes	Type: longlong L2 switched mcast bytes
eth_l2_bcastpkts	Type: longlong L2 switched bcast pkts
eth_l2_bcastbytes	Type: longlong L2 switched bcast bytes
eth_l3in_ucastpkts	Type: longlong IPv4 L3 in switched ucast pkts
eth_l3in_ucastbytes	Type: longlong IPv4 L3 in switched ucast bytes
eth_l3in_mcastpkts	Type: longlong IPv4 L3 in switched mcast pkts
eth_l3in_mcastbytes	Type: longlong IPv4 L3 in switched mcast bytes
eth_l3in_bcastpkts	Type: longlong L3 in switched bcast pkts
eth_l3in_bcastbytes	Type: longlong L3 in switched bcast bytes
eth_l3out_ucastpkts	Type: longlong IPv4 L3 out switched ucast pkts
eth_l3out_ucastbytes	Type: longlong IPv4 L3 out switched ucast bytes
eth_l3out_mcastpkts	Type: longlong IPv4 L3 out switched mcast pkts
eth_l3out_mcastbytes	Type: longlong IPv4 L3 out switched mcast bytes

eth_l3out_bcastpkts	Type: longlong L3 out switched bcast pkts
eth_l3out_bcastbytes	Type: longlong L3 out switched bcast bytes
eth_l3in_routed_pkts	Type: longlong L3 in routed pkts
eth_l3in_routed_bytes	Type: longlong L3 in routed bytes
eth_l3out_routed_pkts	Type: longlong L3 out routed pkts
eth_l3out_routed_bytes	Type: longlong L3 out routed bytes
eth_l3avg1_inbytes	Type: longlong Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	Type: longlong Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	Type: longlong Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	Type: longlong Load interval 1 L3 average out switched pkts
eth_l3avg2_inbytes	Type: longlong Load interval 2 L3 average in switched bytes
eth_l3avg2_inpkts	Type: longlong Load interval 2 L3 average in switched pkts
eth_l3avg2_outbytes	Type: longlong Load interval 2 L3 average out switched bytes
eth_l3avg2_outpkts	Type: longlong Load interval 2 L3 average out switched pkts
eth_l3avg3_inbytes	Type: longlong Load interval 3 L3 average in switched bytes

eth_l3avg3_inpkts	Type: longlong Load interval 3 L3 average in switched pkts
eth_l3avg3_outbytes	Type: longlong Load interval 3 L3 average out switched bytes
eth_l3avg3_outpkts	Type: longlong Load interval 3 L3 average out switched pkts
eth_inpkts	Type: longlong Packets input
eth_inbytes	Type: longlong Bytes input
eth_nobuf	Type: longlong No buffer received
eth_inbcast	Type: longlong Broadcasts
eth_inmcast	Type: longlong Multicasts
eth_inucast	Type: longlong Unicasts
eth_ingiants	Type: longlong giants
eth_ipmcast	Type: longlong IP multicast
eth_inhw_switched	Type: longlong Input H/W Switched
eth_insw_switched	Type: longlong Input S/W Switched
eth_runts	Type: longlong runts
eth_storm_supp	Type: longlong storm suppression

eth_throtles	Type: longlong throttles
eth_inerr	Type: longlong input errors
eth_crc	Type: longlong CRC
eth_ecc	Type: longlong ECC
eth_frame	Type: longlong frame
eth_overrun	Type: longlong overrun
eth_ignored	Type: longlong ignored
eth_watchdog	Type: longlong watchdog
eth_outbcast	Type: longlong Broadcasts
eth_outmcast	Type: longlong Multicasts
eth_outucast	Type: longlong Unicasts
eth_outgiants	Type: longlong giants
eth_inpause	Type: longlong pause input
eth_dribble	Type: longlong input packets with dribble condition
eth_in_ifdown_drops	Type: longlong Input if-down drops

eth_bad_eth	Type: longlong bad ether type drop
eth_bad_proto	Type: longlong bad protocol drops
eth_outpkts	Type: longlong packets output
eth_outbytes	Type: longlong bytes output
eth_underrun	Type: longlong underruns
eth_outhw_switched	Type: longlong Out H/W Switched
eth_outsw_switched	Type: longlong Out S/W Switched
eth_outerr	Type: longlong output errors
eth_coll	Type: longlong collisions
eth_resets	Type: longlong interface resets
eth_babbles	Type: longlong babbles
eth_latecoll	Type: longlong late collision
eth_deferred	Type: longlong deferred
eth_lostcarrier	Type: longlong lost carrier
eth_nocarrier	Type: longlong no carrier

eth_outpause	Type: longlong PAUSE output
eth_buffail	Type: longlong output buffer failures
eth_bufswapped	Type: longlong output buffers swapped out
eth_arpdrops	Type: longlong arp drops
eth_out_ifdown_drops	Type: longlong Output if-down drops
eth_single_coll	Type: longlong single collisions
eth_multi_coll	Type: longlong multi collisions
eth_excess_coll	Type: longlong excessive collisions
eth_jabbers	Type: longlong jabbers
eth_shortframe	Type: longlong short frames
eth_indiscard	Type: longlong discards
eth_bad_encap	Type: longlong bad encapsulation
eth_outcrc	Type: longlong Output CRC
eth_symbol	Type: longlong symbol errors
eth_out_drops	Type: longlong output drops

eth_sqetest	Type: longlong SQE test
eth_inb64	Type: longlong input pkts between 0 and 64 bytes
eth_inb65_127	Type: longlong input pkts between 65 and 127 bytes
eth_inb128_255	Type: longlong input pkts between 128 and 255 bytes
eth_inb256_511	Type: longlong input pkts between 256 and 511 bytes
eth_inb512_1023	Type: longlong input pkts between 512 and 1023 bytes
eth_inb1024_1518	Type: longlong input pkts between 1024 and 1518 bytes
eth_inb1519_1548	Type: longlong input pkts between 1519 and 1548 bytes
eth_intrunk	Type: longlong input trunk pkts
eth_outb64	Type: longlong output pkts between 0 and 64 bytes
eth_outb65_127	Type: longlong output pkts between 65 and 127 bytes
eth_outb128_255	Type: longlong output pkts between 128 and 255 bytes
eth_outb256_511	Type: longlong output pkts between 256 and 511 bytes
eth_outb512_1023	Type: longlong output pkts between 512 and 1023 bytes
eth_outb1024_1518	Type: longlong output pkts between 1024 and 1518 bytes

eth_outb1519_1548	Type: longlong output pkts between 1519 and 1548 bytes
eth_outtrunk	Type: longlong output trunk pkts
eth_bpdu_outlost	Type: longlong BPDU output lost
eth_cos0_outlost	Type: longlong output pkts
eth_cos1_outlost	Type: longlong output pkts
eth_cos2_outlost	Type: longlong output pkts
eth_cos3_outlost	Type: longlong output pkts
eth_cos4_outlost	Type: longlong output pkts
eth_cos5_outlost	Type: longlong output pkts
eth_cos6_outlost	Type: longlong output pkts
eth_cos7_outlost	Type: longlong output pkts
eth_fcoe_in_pkts	Type: longlong fcoe in pkts
eth_fcoe_in_octets	Type: longlong fcoe in octets
eth_fcoe_out_pkts	Type: longlong fcoe out pkts
eth_fcoe_out_octets	Type: longlong fcoe out octets

eth_nfcoe_in_pkts	Type: longlong nfcoe in pkts
eth_nfcoe_in_octets	Type: longlong nfcoe in octets
eth_nfcoe_out_pkts	Type: longlong nfcoe out pkts
eth_nfcoe_out_octets	Type: longlong nfcoe out octets
eth_eee_atx_lpi_msec	Type: longlong Tx Lpi usec
eth_eee_arcv_lpi_msec	Type: longlong Rx Lpi usec
eth_eee_atx_lpi_transitions	Type: longlong Tx Lpi requests
eth_eee_arcv_lpi_transitions	Type: longlong Rx Lpi indications
eth_phy_ber_count	Type: longlong Bit error rate counter
eth_phy_errblks_count	Type: longlong Errored blocks counter
svi_routed_pkts_in	Type: long in routed pkts
svi_routed_bytes_in	Type: long in routed bytes
svi_routed_pkts_out	Type: long out routed pkts
svi_routed_bytes_out	Type: long out routed bytes
svi_ucast_pkts_in	Type: long in unicast pkts

svi_ucast_bytes_in	Type: long in unicast bytes
svi_mcast_pkts_in	Type: long in multicast pkts
svi_mcast_bytes_in	Type: long in multicast bytes
svi_ucast_pkts_out	Type: long out unicast pkts
svi_ucast_bytes_out	Type: long out unicast bytes
svi_mcast_pkts_out	Type: long out multicast pkts
svi_mcast_bytes_out	Type: long out multicast bytes
svi_ipv4_ucast_pkts_in	Type: long IPv4 in unicast pkts
svi_ipv4_ucast_bytes_in	Type: long IPv4 in unicast bytes
svi_ipv4_ucast_pkts_out	Type: long IPv4 out unicast pkts
svi_ipv4_ucast_bytes_out	Type: long IPv4 out unicast bytes
svi_ipv4_mcast_pkts_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_bytes_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_pkts_out	Type: long IPv4 out multicast pkts
svi_ipv4_mcast_bytes_out	Type: long IPv4 out multicast bytes

svi_ipv6_ucast_pkts_in	Type: long IPv6 in unicast pkts
svi_ipv6_ucast_bytes_in	Type: long IPv6 in unicast bytes
svi_ipv6_ucast_pkts_out	Type: long IPv6 out unicast pkts
svi_ipv6_ucast_bytes_out	Type: long IPv6 out unicast bytes
svi_ipv6_mcast_pkts_in	Type: long IPv6 in multicast pkts
svi_ipv6_mcast_bytes_in	Type: long IPv6 in multicast bytes
svi_ipv6_mcast_pkts_out	Type: long IPv6 out multicast pkts
svi_ipv6_mcast_bytes_out	Type: long IPv6 out multicast bytes
svi_average_input_bits	Type: long Input rate bits/sec
svi_average_input_packets	Type: long Input rate bits/sec
svi_average_output_bits	Type: long Output rate bits/sec
svi_average_output_packets	Type: long Output rate bits/sec
svi_rate_in_mins	Type: long Time in mins for which average rate is computed
svi_reliability	Type: uinteger Reliability

Command Modes

- /exec

show interface (if_manager)

show interface *ifeth* [**__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*] [*medium*] [*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_eee_state*] [*eth_members*] [*eth_link_flapped*] [*eth_clear_counters*] [*eth_reset_cntr*] [*eth_load_interval1*] [*eth_load_interval1_rx*] [*eth_inrate1_bits*] [*eth_inrate1_pkts*] [*eth_load_interval1_tx*] [*eth_outrate1_bits*] [*eth_outrate1_pkts*] [*eth_load_interval2*] [*eth_inrate2_bits*] [*eth_inrate2_pkts*] [*eth_outrate2_bits*] [*eth_outrate2_pkts*] [*eth_load_interval3*] [*eth_inrate3_bits*] [*eth_inrate3_pkts*] [*eth_outrate3_bits*] [*eth_outrate3_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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth	Type: interface-mrange Enter interface type and number in module/slot format
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface

state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

	transceiverAuthFailure value: 285 Transceiver authentication failed on the port **vPC+SwitchIDNotCfgd value: 256** Failed to bring up vPC+ peer link Fabric Path switch ID not configured **vPC+PeerLnkNotFabricPath value: 257** Failed to bring up vPC+ peer link port is not configured as a Fabric Path port **xcvrEthComplianceErr value: 262** The transceiver has failed ethernet compliance **speedGrpChk value: 307** Speed-Group config does not match type of transceiver **suspended(no LACP PDUs) value: 272** Suspended due to no LACP PDUs received from peer
eth_rsn_fac	Type: string State reason facility
eth_rsn_code	Type: string State reason code
admin_state	Type: string admin state
share_state	Interface ownership **Dedicated value: 0x00** state is owned **Shared value: 0x01** state is shared **Dedicated(Shared) value: 0x02** state is owned
parent_interface	Type: interface parent interface
vpc_status	Type: string VPC status
eth_bundle	Type: string Belongs to bundle

eth_hw_desc	Type: string HW description
eth_hw_addr	Type: ethernet HW address
eth_bia_addr	Type: ethernet bia address
desc	Type: string Interface description
eth_ip_addr	Type: ipaddr IP Address
eth_ip_mask	Type: uinteger IP address mask
eth_ip_prefix	Type: string IP address prefix
eth_mtu	Type: string MTU
eth_bw	Type: uinteger Bandwidth
eth_dly	Type: uinteger Delay
eth_reliability	Type: string Reliability
eth_txload	Type: string Tx load
eth_rxload	Type: string Rx load
eth_encap_vlan	Type: uinteger Encapsulation Vlan
medium	Type: string medium type

eth_mode	Port mode **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **Private-vlan host value: 0x00400000** PVLAN host **Private-vlan promiscuous value: 0x00800000** PVLAN promiscuous **Private-vlan trunk promiscuous value: 0x10000000** PVLAN trunk promiscuous **Private-vlan trunk secondary value: 0x20000000** PVLAN_trunk_secondary **fex-fabric value: 0x02000000** FEX fabric **dot1q-tunnel value: 0x01000000** 1qTunl **FabricPath value: 0x00100003** FabricPath
eth_duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

eth_speed	Speed **auto-speed value: 0** Auto **10 Mb/s value: 10** 10Mb/s **100 Mb/s value: 100** 100Mb/s **auto-speed 10-100 value: 110** Auto 10-100Mb/s **1000 Mb/s value: 1000** 1Gb/s **10 Gb/s value: 10000** 10Gb/s **40 Gb/s value: 40000** 40Gb/s **100 Gb/s value: 100000** 100Gb/s
eth_media	Type: string Media type
eth_beacon	Beacon **on value: 1** On **off value: 2** Off
eth_autoneg	Autonegotiation **off value: 2** Off **on value: 1** On

eth_in_flowctrl	Input flowcontrol **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
eth_out_flowctrl	Output flowcontrol **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired
eth_mdix	Mdix **off value: 0** Off **on value: 1** On
eth_ratemode	Rate mode **dedicated value: 1** rate mode is dedicated **shared value: 2** rate mode is shared

eth_swt_monitor	Switchport Monitor **off value: 0** Off **on value: 1** On **on, forwarding is on value: 2** Forward On **on, forwarding is on, learning is on value: 3** Learn On
eth_ethertype	Type: string EtherType
eth_eee_state	Type: string EEE state
eth_members	Type: string Members in this channel
eth_link_flapped	Type: string Last link flapped
eth_clear_counters	Type: string Last clearing of show interface counters
eth_reset_cntr	Type: uinteger Interface resets
eth_load_interval1	Type: uinteger interval 1 timer value in sec
eth_load_interval1_rx	Type: uinteger interval 1 timer value in sec
eth_inrate1_bits	Type: longlong interval 1 input rate bits/sec
eth_inrate1_pkts	Type: longlong interval 1 input rate pkts/sec
eth_load_interval1_tx	Type: uinteger interval 1 timer value in sec

eth_outrate1_bits	Type: longlong interval 1 output rate bits/sec
eth_outrate1_pkts	Type: longlong interval 1 output rate pkts/sec
eth_load_interval2	Type: uinteger interval 2 timer value in sec
eth_inrate2_bits	Type: longlong interval 2 input rate bits/sec
eth_inrate2_pkts	Type: longlong interval 2 input rate pkts/sec
eth_outrate2_bits	Type: longlong interval 2 output rate bits/sec
eth_outrate2_pkts	Type: longlong interval 2 output rate pkts/sec
eth_load_interval3	Type: uinteger interval 3 timer value in sec
eth_inrate3_bits	Type: longlong interval 3 input rate bits/sec
eth_inrate3_pkts	Type: longlong interval 3 input rate pkts/sec
eth_outrate3_bits	Type: longlong interval 3 output rate bits/sec
eth_outrate3_pkts	Type: longlong interval 3 output rate pkts/sec
eth_l2_ucastpkts	Type: longlong L2 switched ucast pkts
eth_l2_ucastbytes	Type: longlong L2 switched ucast bytes
eth_l2_mcastpkts	Type: longlong L2 switched mcast pkts

eth_l2_mcastbytes	Type: longlong L2 switched mcast bytes
eth_l2_bcastpkts	Type: longlong L2 switched bcast pkts
eth_l2_bcastbytes	Type: longlong L2 switched bcast bytes
eth_l3in_ucastpkts	Type: longlong L3 in switched ucast pkts
eth_l3in_ucastbytes	Type: longlong L3 in switched ucast bytes
eth_l3in_mcastpkts	Type: longlong L3 in switched mcast pkts
eth_l3in_mcastbytes	Type: longlong L3 in switched mcast bytes
eth_l3in_bcastpkts	Type: longlong L3 in switched bcast pkts
eth_l3in_bcastbytes	Type: longlong L3 in switched bcast bytes
eth_l3out_ucastpkts	Type: longlong L3 out switched ucast pkts
eth_l3out_ucastbytes	Type: longlong L3 out switched ucast bytes
eth_l3out_mcastpkts	Type: longlong L3 out switched mcast pkts
eth_l3out_mcastbytes	Type: longlong L3 out switched mcast bytes
eth_l3out_bcastpkts	Type: longlong L3 out switched bcast pkts
eth_l3out_bcastbytes	Type: longlong L3 out switched bcast bytes

eth_l3in_routed_pkts	Type: longlong L3 in routed pkts
eth_l3in_routed_bytes	Type: longlong L3 in routed bytes
eth_l3out_routed_pkts	Type: longlong L3 out routed pkts
eth_l3out_routed_bytes	Type: longlong L3 out routed bytes
eth_l3avg1_inbytes	Type: longlong Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	Type: longlong Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	Type: longlong Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	Type: longlong Load interval 1 L3 average out switched pkts
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_inpkts	Type: longlong Packets input
eth_inbytes	Type: longlong Bytes input
eth_jumbo_inpkts	Type: longlong Incoming jumbo pkts
eth_storm_supp	Type: longlong storm suppression

eth_runts	Type: longlong runts
eth_giants	Type: longlong giants
eth_crc	Type: longlong CRC
eth_nobuf	Type: longlong No buffer received
eth_inerr	Type: longlong input errors
eth_frame	Type: longlong frame
eth_overrun	Type: longlong overrun
eth_underrun	Type: longlong underruns
eth_ignored	Type: longlong ignored
eth_watchdog	Type: longlong watchdog
eth_bad_eth	Type: longlong bad ether type drop
eth_bad_proto	Type: longlong bad protocol drops
eth_in_ifdown_drops	Type: longlong Input if-down drops
eth_dribble	Type: longlong input packets with dribble condition
eth_indiscard	Type: longlong discards

eth_inpause	Type: longlong pause input
eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts
eth_outpkts	Type: longlong packets output
eth_outbytes	Type: longlong bytes output
eth_jumbo_outpkts	Type: longlong Outgoing jumbo pkts
eth_outerr	Type: longlong output errors
eth_coll	Type: longlong collisions
eth_deferred	Type: longlong deferred
eth_latecoll	Type: longlong late collision
eth_lostcarrier	Type: longlong lost carrier
eth_nocarrier	Type: longlong no carrier
eth_babbles	Type: longlong babbles
eth_outdiscard	Type: longlong output discard

eth_outpause	Type: longlong PAUSE output

Command Modes

- /exec

show interface (if_manager)

show interface *ifmgmt* [**__readonly__ TABLE_interface** *interface state* [*state_rsn_desc*] [*state_rsn*] [*eth_rsn_fac*] [*eth_rsn_code*] [*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*] [*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_swt_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
ifmgmt	Type: interface-mrange Enter interface type and number in module/slot format
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

	transceiverAuthFailure value: 285 Transceiver authentication failed on the port **vPC+SwitchIDNotCfgd value: 256** Failed to bring up vPC+ peer link Fabric Path switch ID not configured **vPC+PeerLnkNotFabricPath value: 257** Failed to bring up vPC+ peer link port is not configured as a Fabric Path port **xcvrEthComplianceErr value: 262** The transceiver has failed ethernet compliance **speedGrpChk value: 307** Speed-Group config does not match type of transceiver **suspended(no LACP PDUs) value: 272** Suspended due to no LACP PDUs received from peer
eth_rsn_fac	Type: string State reason facility
eth_rsn_code	Type: string State reason code
share_state	Interface ownership **Dedicated value: 0x00** state is owned **Shared value: 0x01** state is shared **Dedicated(Shared) value: 0x02** state is owned
eth_bundle	Type: string Belongs to bundle
eth_dce_mode	Type: string DCE mode description
vpc_status	Type: string VPC status
eth_hw_desc	Type: string HW description

eth_hw_addr	Type: ethernet HW address
eth_bia_addr	Type: ethernet bia address
desc	Type: string Interface description
eth_ip_addr	Type: ipaddr IP Address
eth_ip_mask	Type: uinteger IP address mask
eth_ip_prefix	Type: string IP address prefix
eth_mtu	Type: string MTU
eth_bw	Type: uinteger Bandwidth
eth_encap_vlan	Type: uinteger Encapsulation Vlan
eth_dly	Type: uinteger Delay
eth_reliability	Type: string Reliability
eth_txload	Type: string Tx load
eth_rxload	Type: string Rx load

eth_loopback	Loopback **notset value: 0x0** not set **line value: 0x1** line **mac value: 0x2** mac **ext value: 0x3** external
eth_keepalive	Type: uinteger Keepalive
eth_duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

eth_speed	Speed **auto-speed value: 0** Auto **10 Mb/s value: 10** 10Mb/s **100 Mb/s value: 100** 100Mb/s **auto-speed 10-100 value: 110** Auto 10-100Mb/s **1000 Mb/s value: 1000** 1Gb/s **10 Gb/s value: 10000** 10Gb/s **40 Gb/s value: 40000** 40Gb/s **100 Gb/s value: 100000** 100Gb/s

eth_mode	Port mode **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **Private-vlan host value: 0x00400000** PVLAN host **Private-vlan promiscuous value: 0x00800000** PVLAN promiscuous **Private-vlan trunk promiscuous value: 0x10000000** PVLAN trunk promiscuous **Private-vlan trunk secondary value: 0x20000000** PVLAN_trunk_secondary **fex-fabric value: 0x02000000** FEX fabric **dot1q-tunnel value: 0x01000000** 1qTunl **FabricPath value: 0x00100003** FabricPath
eth_ratemode	Rate mode **dedicated value: 1** rate mode is dedicated **shared value: 2** rate mode is shared
eth_autoneg	Autonegotiation **off value: 2** Off **on value: 1** On

eth_beacon	Beacon **on value: 1** On **off value: 2** Off
eth_media	Type: string Media type
eth_in_flowctrl	Input flowcontrol **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
eth_out_flowctrl	Output flowcontrol **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired
eth_mdix	Mdix **off value: 0** Off **on value: 1** On

eth_swt_monitor	Switchport Monitor **off value: 0** Off **on value: 1** On **on, forwarding is on value: 2** Forward On **on, forwarding is on, learning is on value: 3** Learn On
eth_ethertype	Type: string EtherType
eth_members	Type: string Members in this channel
eth_clk_mode	Type: string Clock mode
eth_arp_type	Type: string ARP type
eth_arp_timeout	Type: string ARP timeout
eth_last_in	Type: string Last input
eth_last_out	Type: string Last output
eth_out_hang	Type: string Last output hang
eth_clear_counters	Type: string Last clearing of show interface counters
eth_link_flapped	Type: string Last link flapped
eth_inq_size	Type: uinteger Input queue size

eth_inq_max	Type: uinteger Input queue max
eth_inq_drops	Type: uinteger Input queue drops
eth_inq_flush	Type: uinteger Input queue flushes
eth_out_drop	Type: uinteger Output drops
eth_q_strategy	Type: string Queueing strategy
eth_outq_size	Type: uinteger Output queue size
eth_outq_max	Type: uinteger Output queue max
eth_reset_cntr	Type: uinteger Interface resets
mgmt_hw_desc	Type: string HW description
mgmt_hw_addr	Type: ethernet HW address
mgmt_ip_addr	Type: ipaddr IP address
mgmt_ip_mask	Type: ipaddr IP address mask
mgmt_mtu	Type: uinteger MTU

mgmt_speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s

mgmt_duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full
vdc_lvl_in_avg_bits	Type: longlong VDC level average input bits
vdc_lvl_in_avg_pkts	Type: longlong VDC level average input packets
vdc_lvl_out_avg_bits	Type: longlong VDC level average output bits
vdc_lvl_out_avg_pkts	Type: longlong VDC level average output packets
vdc_lvl_in_pkts	Type: longlong VDC level input packets
vdc_lvl_in_ucast	Type: longlong VDC level input unicast packets
vdc_lvl_in_mcast	Type: longlong VDC level input multicast packets
vdc_lvl_in_bcast	Type: longlong VDC level input broadcast packets
vdc_lvl_in_bytes	Type: longlong VDC level input bytes
vdc_lvl_in_bps	Type: longlong VDC level input bytes per second
vdc_lvl_in_pps	Type: longlong VDC level input packets per second
vdc_lvl_out_pkts	Type: longlong VDC level output packets

vdc_lvl_out_ucast	Type: longlong VDC level output unicast packets
vdc_lvl_out_mcast	Type: longlong VDC level output multicast packets
vdc_lvl_out_bcast	Type: longlong VDC level output broadcast packets
vdc_lvl_out_bytes	Type: longlong VDC level output bytes
vdc_lvl_out_bps	Type: longlong VDC level output bytes per second
vdc_lvl_out_pps	Type: longlong VDC level output packets per second

Command Modes

- /exec

show interface (if_manager)

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
ifrange	Type: interface-mrange Enter interface type and number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

desc	Type: string Interface description
overlay_addr	Type: ipaddr Overlay address
overlay_addr_mask	Type: uinteger Overlay address mask
overlay_mtu	Type: uinteger MTU
overlay_bandwidth	Type: uinteger Bandwidth
overlay_encap_str	Type: string Encap type
overlay_vrf	Type: string VRF
overlay_src_addr	Type: ipaddr Source address
overlay_dst_addr	Type: ipaddr Destination address

overlay_last_link_flap	Type: string Last link flap
overlay_clear_counters	Type: string Last clearing of show interface counters
overlay_load_interval	Type: uinteger Load interval
overlay_rx_ucastpkts	Type: longlong Received ucast pkts
overlay_rx_ucastbytes	Type: longlong Received ucast bytes
overlay_rx_mcastpkts	Type: longlong Received mcast pkts
overlay_rx_mcastbytes	Type: longlong Received mcast bytes
overlay_rx_bcastpkts	Type: longlong Received bcast pkts
overlay_rx_bcastbytes	Type: longlong Received bcast bytes
overlay_rx_pkts	Type: longlong Total received pkts
overlay_rx_bytes	Type: longlong Total received bytes
overlay_rx_bitrate	Type: longlong Receive bit rate
overlay_rx_pktrate	Type: longlong Receive pkt rate
overlay_tx_ucastpkts	Type: longlong Trasnmitted ucast pkts
overlay_tx_ucastbytes	Type: longlong Trasnmitted ucast bytes

overlay_tx_mcastpkts	Type: longlong Trasnmitted mcast pkts
overlay_tx_mcastbytes	Type: longlong Trasnmitted mcast bytes
overlay_tx_bcastpkts	Type: longlong Trasnmitted bcast pkts
overlay_tx_bcastbytes	Type: longlong Trasnmitted bcast bytes
overlay_tx_pkts	Type: longlong Total transmitted pkts
overlay_tx_bytes	Type: longlong Total transmitted bytes
overlay_tx_bitrate	Type: longlong Transmit bit rate
overlay_tx_pktrate	Type: longlong Transmit pkt rate

Command Modes

- /exec

show interface (if_manager)

show interface [**__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*] [*medium*] [*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_eee_state*] [*eth_members*] [*eth_link_flapped*] [*eth_clear_counters*] [*eth_reset_cntr*] [*eth_load_interval1*] [*eth_load_interval1_rx*] [*eth_inrate1_bits*] [*eth_inrate1_pkts*] [*eth_load_interval1_tx*] [*eth_outrate1_bits*] [*eth_outrate1_pkts*] [*eth_load_interval2*] [*eth_inrate2_bits*] [*eth_inrate2_pkts*] [*eth_outrate2_bits*] [*eth_outrate2_pkts*] [*eth_load_interval3*] [*eth_inrate3_bits*] [*eth_inrate3_pkts*] [*eth_outrate3_bits*] [*eth_outrate3_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_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*] *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 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*] [*svi_rsn_desc*] [*svi_line_proto*] [*svi_hw*] [*svi_mac*] [*svi_desc*] [*svi_ip_addr*] [*svi_ip_mask*] [*svi_mtu*] [*svi_bw*] [*svi_delay*] [*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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

eth_rsn_fac	Type: string State reason facility
eth_rsn_code	Type: string State reason code
admin_state	Type: string admin state
share_state	Interface ownership **Dedicated value: 0x00** state is owned **Shared value: 0x01** state is shared **Dedicated(Shared) value: 0x02** state is owned
parent_interface	Type: interface parent interface
vpc_status	Type: string VPC status

eth_bundle	Type: string Belongs to bundle
eth_hw_desc	Type: string HW description
eth_hw_addr	Type: ethernet HW address
eth_bia_addr	Type: ethernet bia address
desc	Type: string Interface description
eth_ip_addr	Type: ipaddr IP Address
eth_ip_mask	Type: uinteger IP address mask
eth_ip_prefix	Type: string IP address prefix
eth_mtu	Type: string MTU
eth_bw	Type: uinteger Bandwidth
eth_dly	Type: uinteger Delay
eth_reliability	Type: string Reliability
eth_txload	Type: string Tx load
eth_rxload	Type: string Rx load
eth_encap_vlan	Type: uinteger Encapsulation Vlan

medium	Type: string medium type
eth_mode	Port mode **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **Private-vlan host value: 0x00400000** PVLAN host **Private-vlan promiscuous value: 0x00800000** PVLAN promiscuous **Private-vlan trunk promiscuous value: 0x10000000** PVLAN trunk promiscuous **Private-vlan trunk secondary value: 0x20000000** PVLAN_trunk_secondary **fex-fabric value: 0x02000000** FEX fabric **dot1q-tunnel value: 0x01000000** 1qTunl **FabricPath value: 0x00100003** FabricPath
eth_duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

eth_speed	Speed **auto-speed value: 0** Auto **10 Mb/s value: 10** 10Mb/s **100 Mb/s value: 100** 100Mb/s **auto-speed 10-100 value: 110** Auto 10-100Mb/s **1000 Mb/s value: 1000** 1Gb/s **10 Gb/s value: 10000** 10Gb/s **40 Gb/s value: 40000** 40Gb/s **100 Gb/s value: 100000** 100Gb/s
eth_media	Type: string Media type
eth_beacon	Beacon **on value: 1** On **off value: 2** Off
eth_autoneg	Autonegotiation **off value: 2** Off **on value: 1** On

eth_in_flowctrl	Input flowcontrol **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
eth_out_flowctrl	Output flowcontrol **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired
eth_mdix	Mdix **off value: 0** Off **on value: 1** On
eth_ratemode	Rate mode **dedicated value: 1** rate mode is dedicated **shared value: 2** rate mode is shared

eth_swt_monitor	Switchport Monitor **off value: 0** Off **on value: 1** On **on, forwarding is on value: 2** Forward On **on, forwarding is on, learning is on value: 3** Learn On
eth_ethertype	Type: string EtherType
eth_eee_state	Type: string EEE state
eth_members	Type: string Members in this channel
eth_link_flapped	Type: string Last link flapped
eth_clear_counters	Type: string Last clearing of show interface counters
eth_reset_cntr	Type: uinteger Interface resets
eth_load_interval1	Type: uinteger interval 1 timer value in sec
eth_load_interval1_rx	Type: uinteger interval 1 timer value in sec
eth_inrate1_bits	Type: longlong interval 1 input rate bits/sec
eth_inrate1_pkts	Type: longlong interval 1 input rate pkts/sec
eth_load_interval1_tx	Type: uinteger interval 1 timer value in sec

eth_outrate1_bits	Type: longlong interval 1 output rate bits/sec
eth_outrate1_pkts	Type: longlong interval 1 output rate pkts/sec
eth_load_interval2	Type: uinteger interval 2 timer value in sec
eth_inrate2_bits	Type: longlong interval 2 input rate bits/sec
eth_inrate2_pkts	Type: longlong interval 2 input rate pkts/sec
eth_outrate2_bits	Type: longlong interval 2 output rate bits/sec
eth_outrate2_pkts	Type: longlong interval 2 output rate pkts/sec
eth_load_interval3	Type: uinteger interval 3 timer value in sec
eth_inrate3_bits	Type: longlong interval 3 input rate bits/sec
eth_inrate3_pkts	Type: longlong interval 3 input rate pkts/sec
eth_outrate3_bits	Type: longlong interval 3 output rate bits/sec
eth_outrate3_pkts	Type: longlong interval 3 output rate pkts/sec
eth_l2_ucastpkts	Type: longlong L2 switched ucast pkts
eth_l2_ucastbytes	Type: longlong L2 switched ucast bytes
eth_l2_mcastpkts	Type: longlong L2 switched mcast pkts

eth_l2_mcastbytes	Type: longlong L2 switched mcast bytes
eth_l2_bcastpkts	Type: longlong L2 switched bcast pkts
eth_l2_bcastbytes	Type: longlong L2 switched bcast bytes
eth_l3in_ucastpkts	Type: longlong L3 in switched ucast pkts
eth_l3in_ucastbytes	Type: longlong L3 in switched ucast bytes
eth_l3in_mcastpkts	Type: longlong L3 in switched mcast pkts
eth_l3in_mcastbytes	Type: longlong L3 in switched mcast bytes
eth_l3in_bcastpkts	Type: longlong L3 in switched bcast pkts
eth_l3in_bcastbytes	Type: longlong L3 in switched bcast bytes
eth_l3out_ucastpkts	Type: longlong L3 out switched ucast pkts
eth_l3out_ucastbytes	Type: longlong L3 out switched ucast bytes
eth_l3out_mcastpkts	Type: longlong L3 out switched mcast pkts
eth_l3out_mcastbytes	Type: longlong L3 out switched mcast bytes
eth_l3out_bcastpkts	Type: longlong L3 out switched bcast pkts
eth_l3out_bcastbytes	Type: longlong L3 out switched bcast bytes

eth_l3in_routed_pkts	Type: longlong L3 in routed pkts
eth_l3in_routed_bytes	Type: longlong L3 in routed bytes
eth_l3out_routed_pkts	Type: longlong L3 out routed pkts
eth_l3out_routed_bytes	Type: longlong L3 out routed bytes
eth_l3avg1_inbytes	Type: longlong Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	Type: longlong Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	Type: longlong Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	Type: longlong Load interval 1 L3 average out switched pkts
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_inpkts	Type: longlong Packets input
eth_inbytes	Type: longlong Bytes input
eth_jumbo_inpkts	Type: longlong Incoming jumbo pkts
eth_storm_supp	Type: longlong storm suppression

eth_runts	Type: longlong runts
eth_giants	Type: longlong giants
eth_crc	Type: longlong CRC
eth_nobuf	Type: longlong No buffer received
eth_inerr	Type: longlong input errors
eth_frame	Type: longlong frame
eth_overrun	Type: longlong overrun
eth_underrun	Type: longlong underruns
eth_ignored	Type: longlong ignored
eth_watchdog	Type: longlong watchdog
eth_bad_eth	Type: longlong bad ether type drop
eth_bad_proto	Type: longlong bad protocol drops
eth_in_ifdown_drops	Type: longlong Input if-down drops
eth_dribble	Type: longlong input packets with dribble condition
eth_indiscard	Type: longlong discards

eth_inpause	Type: longlong pause input
eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts
eth_outpkts	Type: longlong packets output
eth_outbytes	Type: longlong bytes output
eth_jumbo_outpkts	Type: longlong Outgoing jumbo pkts
eth_outerr	Type: longlong output errors
eth_coll	Type: longlong collisions
eth_deferred	Type: longlong deferred
eth_latecoll	Type: longlong late collision
eth_lostcarrier	Type: longlong lost carrier
eth_nocarrier	Type: longlong no carrier
eth_babbles	Type: longlong babbles
eth_outdiscard	Type: longlong output discard

eth_outpause	Type: longlong PAUSE output
mgmt_hw_desc	Type: string HW description
mgmt_hw_addr	Type: ethernet HW address
mgmt_ip_addr	Type: ipaddr IP address
mgmt_ip_mask	Type: ipaddr IP address mask
mgmt_mtu	Type: uinteger MTU

mgmt_speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s

mgmt_duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full
vdc_lvl_in_avg_bits	Type: longlong VDC level average input bits
vdc_lvl_in_avg_pkts	Type: longlong VDC level average input packets
vdc_lvl_out_avg_bits	Type: longlong VDC level average output bits
vdc_lvl_out_avg_pkts	Type: longlong VDC level average output packets
vdc_lvl_in_pkts	Type: longlong VDC level input packets
vdc_lvl_in_ucast	Type: longlong VDC level input unicast packets
vdc_lvl_in_mcast	Type: longlong VDC level input multicast packets
vdc_lvl_in_bcast	Type: longlong VDC level input broadcast packets
vdc_lvl_in_bytes	Type: longlong VDC level input bytes
vdc_lvl_in_bps	Type: longlong VDC level input bytes per second
vdc_lvl_in_pps	Type: longlong VDC level input packets per second
vdc_lvl_out_pkts	Type: longlong VDC level output packets

vdc_lvl_out_ucast	Type: longlong VDC level output unicast packets
vdc_lvl_out_mcast	Type: longlong VDC level output multicast packets
vdc_lvl_out_bcast	Type: longlong VDC level output broadcast packets
vdc_lvl_out_bytes	Type: longlong VDC level output bytes
vdc_lvl_out_bps	Type: longlong VDC level output bytes per second
vdc_lvl_out_pps	Type: longlong VDC level output packets per second
mgmt_in_pkts	Type: uinteger Input packets
mgmt_in_bytes	Type: uinteger Input bytes
mgmt_in_mcast	Type: uinteger Input multicast frames
mgmt_in_compressed	Type: uinteger Input compressed
mgmt_in_errors	Type: uinteger Input errors
mgmt_in_frame	Type: uinteger Input frame errors
mgmt_in_overrun	Type: uinteger Input overrun
mgmt_in_fifo	Type: uinteger Input fifo
mgmt_out_pkts	Type: uinteger Output packets

mgmt_out_bytes	Type: uinteger Output bytes
mgmt_out_underruns	Type: uinteger Output overruns
mgmt_out_errors	Type: uinteger Output errors
mgmt_out_collisions	Type: uinteger Output collisions
mgmt_out_fifo	Type: uinteger Output fifo
mgmt_out_carrier	Type: uinteger Output carrier errors
mgmt_align_err	Type: longlong Align error
mgmt_fcs_err	Type: longlong FCS error
mgmt_xmit_err	Type: longlong Transmit error
mgmt_rcv_err	Type: longlong Receive error
mgmt_undersize	Type: longlong Undersize
mgmt_outdisc	Type: longlong Out discard
mgmt_single_col	Type: longlong Single collision
mgmt_multi_col	Type: longlong Multiple collision
mgmt_late_col	Type: longlong Late collision

mgmt_excess_col	Type: longlong Excess collision
mgmt_carri_sen	Type: longlong Carrier sense
mgmt_runts	Type: longlong Runts
mgmt_giants	Type: longlong Giants
mgmt_sqetest_err	Type: longlong SQETest error
mgmt_deferred_tx	Type: longlong Deferred tx
mgmt_inmactx_err	Type: longlong In MAC tx
mgmt_inmacrx_err	Type: longlong In MAC rx
mgmt_symbol_err	Type: longlong Symbol error
loop_in_pkts	Type: longlong Input packets
loop_in_bytes	Type: longlong Input bytes
loop_in_mcast	Type: longlong Input multicast
loop_in_compressed	Type: longlong Input compressed
loop_in_errors	Type: longlong Input errors
loop_in_frame	Type: longlong Input frame errors

loop_in_overrun	Type: longlong Input overrun
loop_in_fifo	Type: longlong Input fifo
loop_out_pkts	Type: longlong Output packets
loop_out_bytes	Type: longlong Output bytes
loop_out_underruns	Type: longlong Output underruns
loop_out_errors	Type: longlong Output errors
loop_out_collisions	Type: longlong Output collisions
loop_out_fifo	Type: longlong Output fifo
loop_out_carriers	Type: longlong Output carrier errors
admin-state	**up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
tunnel-ipv4	Type: ipprefix interface IPv4 address

tunnel-ipv6	Type: ipv6prefix interface IPv6 address
mtu	Type: uinteger interface Maximum Transmission Unit
bandwidth	Type: uinteger interface Bandwidth in kilobits
encap-type	**GRE/IP value: 1** **GRE/IPv6 value: 2** **GRE/WCCP value: 5**
keepalive-period	Type: uinteger keealive period
keepalive-retries	Type: uinteger number of retries
src-ipv4	Type: ipaddr tunnel source IPv4 address
src-ipv6	Type: ipv6addr tunnel source IPv6 address
src-intf	Type: interface tunnel source interface
dest-ipv4	Type: ipaddr tunnel destination IPv4 address
dest-ipv6	Type: ipv6addr tunnel destination IPv6 address
dest-hostname	Type: string tunnel destination hostname
vrf_name	Type: string transport VRF name
wccp_header	Type: uinteger wccp header

ttl_val	Type: uinteger tunnel time to live value
tunnel_pmtud_age_time	Type: uinteger tunnel path MTU discovery age time
tunnel_pmtud_min_mtu	Type: uinteger tunnel path MTU discovery min mtu
tunnel_pmtud	Type: uinteger tunnel path MTU discovered
tunnel_pgm_mtu	Type: uinteger tunnel actual programmed MTU
tunnel_rx_pkt_count	Type: longlong total number of packets received
tunnel_rx_byte_count	Type: longlong total number of bytes received
tunnel_rx_rate	Type: longlong packets input rate per 5 minutes
tunnel_tx_pkt_count	Type: longlong total number of packets transmitted
tunnel_tx_byte_count	Type: longlong total number of bytes transmitted
tunnel_tx_rate	Type: longlong packets transmitted per 5 minutes
tunnel_clear_counter	Type: string Last clearing of show interface counters
svi_if_index	Type: interface Interface

svi_admin_state	**up value: 0** **down value: 1** **administratively down value: 2** **type not supported value: 3**

svi_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

	Transceiver speed does not match the speed configured on the port value: 237 The speed supported by the transceiver does not match the speed configured on the port **Transceiver auth failure value: 285** Transceiver authentication failed on the port **vPC+SwitchIDNotCfgd value: 256** Fabric Path switch ID not configured for vPC+ Peer Link **vPC+PeerLnkNotFabricPath value: 257** vPC+ peer link port is not configured as a Fabric Path port **The transceiver has failed ethernet compliance value: 262** The transceiver has failed ethernet compliance **check speed-group config value: 307** Speed-Group config does not match type of transceiver **suspended(no LACP PDUs) value: 272** Suspended due to no LACP PDUs received from peer
svi_line_proto	**up value: 0** **down value: 1**
svi_hw	Type: string length: 32 Hardware
svi_mac	Type: string length: 32 Address
svi_desc	Type: string Interface Description
svi_ip_addr	Type: ipaddr IP Address
svi_ip_mask	Type: uinteger IP address mask

svi_mtu	Type: uinteger MTU size in bytes
svi_bw	Type: uinteger Bandwidth in kilobits
svi_delay	Type: uinteger Throughput delay (tens of microseconds)
svi_tx_load	Type: uinteger Tx Load
svi_rx_load	Type: uinteger Rx Load
svi_carrier_delay_sec	Type: uinteger carrier delay value in seconds
svi_carrier_delay_msec	Type: uinteger carrier delay value in milli-seconds
svi_arp_type	Type: string ARP type
svi_arp_timeout	Type: string ARP timeout value
svi_time_last_cleared	Type: string Time last cleared
TABLE_sec_vlan	secondary vlans
sec_vlan	Type: vlan vlan id
sec_vlan_type	Type: string secondary vlan type
svi_routed_pkts_in	Type: long in routed pkts
svi_routed_bytes_in	Type: long in routed bytes

svi_routed_pkts_out	Type: long out routed pkts
svi_routed_bytes_out	Type: long out routed bytes
svi_ucast_pkts_in	Type: long in unicast pkts
svi_ucast_bytes_in	Type: long in unicast bytes
svi_mcast_pkts_in	Type: long in multicast pkts
svi_mcast_bytes_in	Type: long in multicast bytes
svi_ucast_pkts_out	Type: long out unicast pkts
svi_ucast_bytes_out	Type: long out unicast bytes
svi_mcast_pkts_out	Type: long out multicast pkts
svi_mcast_bytes_out	Type: long out multicast bytes
svi_ipv4_ucast_pkts_in	Type: long IPv4 in unicast pkts
svi_ipv4_ucast_bytes_in	Type: long IPv4 in unicast bytes
svi_ipv4_ucast_pkts_out	Type: long IPv4 out unicast pkts
svi_ipv4_ucast_bytes_out	Type: long IPv4 out unicast bytes
svi_ipv4_mcast_pkts_in	Type: long IPv4 in multicast bytes

svi_ipv4_mcast_bytes_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_pkts_out	Type: long IPv4 out multicast pkts
svi_ipv4_mcast_bytes_out	Type: long IPv4 out multicast bytes
svi_ipv6_ucast_pkts_in	Type: long IPv6 in unicast pkts
svi_ipv6_ucast_bytes_in	Type: long IPv6 in unicast bytes
svi_ipv6_ucast_pkts_out	Type: long IPv6 out unicast pkts
svi_ipv6_ucast_bytes_out	Type: long IPv6 out unicast bytes
svi_ipv6_mcast_pkts_in	Type: long IPv6 in multicast pkts
svi_ipv6_mcast_bytes_in	Type: long IPv6 in multicast bytes
svi_ipv6_mcast_pkts_out	Type: long IPv6 out multicast pkts
svi_ipv6_mcast_bytes_out	Type: long IPv6 out multicast bytes
svi_average_input_bits	Type: long Input rate bits/sec
svi_average_input_packets	Type: long Input rate bits/sec
svi_average_output_bits	Type: long Output rate bits/sec
svi_average_output_packets	Type: long Output rate bits/sec

svi_rate_in_mins	Type: long Time in mins for which average rate is computed
svi_reliability	Type: uinteger Reliability
overlay_addr	Type: ipaddr Overlay address
overlay_addr_mask	Type: uinteger Overlay address mask
overlay_mtu	Type: uinteger MTU
overlay_bandwidth	Type: uinteger Bandwidth
overlay_encap_str	Type: string Encap type
overlay_vrf	Type: string VRF
overlay_src_addr	Type: ipaddr Source address
overlay_dst_addr	Type: ipaddr Destination address
overlay_last_link_flap	Type: string Last link flap
overlay_clear_counters	Type: string Last clearing of show interface counters
overlay_load_interval	Type: uinteger Load interval
overlay_rx_ucastpkts	Type: longlong Received ucast pkts
overlay_rx_ucastbytes	Type: longlong Received ucast bytes

overlay_rx_mcastpkts	Type: longlong Received mcast pkts
overlay_rx_mcastbytes	Type: longlong Received mcast bytes
overlay_rx_bcastpkts	Type: longlong Received bcast pkts
overlay_rx_bcastbytes	Type: longlong Received bcast bytes
overlay_rx_pkts	Type: longlong Total received pkts
overlay_rx_bytes	Type: longlong Total received bytes
overlay_rx_bitrate	Type: longlong Receive bit rate
overlay_rx_pktrate	Type: longlong Receive pkt rate
overlay_tx_ucastpkts	Type: longlong Trasnmitted ucast pkts
overlay_tx_ucastbytes	Type: longlong Trasnmitted ucast bytes
overlay_tx_mcastpkts	Type: longlong Trasnmitted mcast pkts
overlay_tx_mcastbytes	Type: longlong Trasnmitted mcast bytes
overlay_tx_bcastpkts	Type: longlong Trasnmitted bcast pkts
overlay_tx_bcastbytes	Type: longlong Trasnmitted bcast bytes
overlay_tx_pkts	Type: longlong Total transmitted pkts

overlay_tx_bytes	Type: longlong Total transmitted bytes
overlay_tx_bitrate	Type: longlong Transmit bit rate
overlay_tx_pktrate	Type: longlong Transmit pkt rate

Command Modes

- /exec

show interface (if_manager)

show interface *ifloop* [**__readonly__ TABLE_interface** *interface* [*state*] [*share_state*] [*state_rsn*] [*state_rsn_desc*] [*desc*] [*eth_bundle*] [*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*] [*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_swt_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
ifloop	Type: interface-mrange Enter interface type and number in module/slot format
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

share_state	Interface ownership **Dedicated value: 0x00** state is owned **Shared value: 0x01** state is shared **Dedicated(Shared) value: 0x02** state is owned

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

desc	Type: string Interface description
eth_bundle	Type: string Belongs to bundle
eth_eee_state	Type: string EEE state
eth_dce_mode	Type: string DCE mode description
vpc_status	Type: string VPC status
eth_rsn_fac	Type: string State reason facility
eth_rsn_code	Type: string State reason code
eth_hw_desc	Type: string HW description
eth_hw_addr	Type: ethernet HW address

eth_bia_addr	Type: ethernet bia address
eth_ip_addr	Type: ipaddr IP Address
eth_ip_mask	Type: uinteger IP address mask
eth_ip_prefix	Type: string IP Prefix
eth_mtu	Type: string MTU
eth_bw	Type: uinteger Bandwidth
eth_encap_vlan	Type: uinteger Encapsulation Vlan
eth_dly	Type: uinteger Delay
eth_reliability	Type: string Reliability
eth_txload	Type: string Tx load
eth_rxload	Type: string Rx load
eth_loopback	Loopback **notset value: 0x0** not set **line value: 0x1** line **mac value: 0x2** mac **ext value: 0x3** external

eth_keepalive	Type: uinteger Keepalive
eth_duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full
eth_speed	Speed **auto-speed value: 0** Auto **10 Mb/s value: 10** 10Mb/s **100 Mb/s value: 100** 100Mb/s **auto-speed 10-100 value: 110** Auto 10-100Mb/s **1000 Mb/s value: 1000** 1Gb/s **10 Gb/s value: 10000** 10Gb/s **40 Gb/s value: 40000** 40Gb/s **100 Gb/s value: 100000** 100Gb/s

eth_mode	Port mode **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **Private-vlan host value: 0x00400000** PVLAN host **Private-vlan promiscuous value: 0x00800000** PVLAN promiscuous **Private-vlan trunk promiscuous value: 0x10000000** PVLAN trunk promiscuous **Private-vlan trunk secondary value: 0x20000000** PVLAN_trunk_secondary **fex-fabric value: 0x02000000** FEX fabric **dot1q-tunnel value: 0x01000000** 1qTunl **FabricPath value: 0x00100003** FabricPath
eth_ratemode	Rate mode **dedicated value: 1** rate mode is dedicated **shared value: 2** rate mode is shared
eth_autoneg	Autonegotiation **off value: 2** Off **on value: 1** On

eth_beacon	Beacon **on value: 1** On **off value: 2** Off
eth_media	Type: string Media type
eth_in_flowctrl	Input flowcontrol **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
eth_out_flowctrl	Output flowcontrol **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired
eth_mdix	Mdix **off value: 0** Off **on value: 1** On

eth_swt_monitor	Switchport Monitor **off value: 0** Off **on value: 1** On **on, forwarding is on value: 2** Forward On **on, forwarding is on, learning is on value: 3** Learn On
eth_ethertype	Type: string EtherType
eth_members	Type: string Members in this channel
eth_clk_mode	Type: string Clock mode
eth_arp_type	Type: string ARP type
eth_arp_timeout	Type: string ARP timeout
eth_last_in	Type: string Last input
eth_last_out	Type: string Last output
eth_out_hang	Type: string Last output hang
eth_clear_counters	Type: string Last clearing of show interface counters
eth_link_flapped	Type: string Last link flapped
eth_inq_size	Type: uinteger Input queue size

eth_inq_max	Type: uinteger Input queue max
eth_inq_drops	Type: uinteger Input queue drops
eth_inq_flush	Type: uinteger Input queue flushes
eth_out_drop	Type: uinteger Output drops
eth_q_strategy	Type: string Queueing strategy
eth_outq_size	Type: uinteger Output queue size
eth_outq_max	Type: uinteger Output queue max
eth_reset_cntr	Type: uinteger Interface resets
loop_in_pkts	Type: longlong Input packets
loop_in_bytes	Type: longlong Input bytes
loop_in_mcast	Type: longlong Input multicast
loop_in_compressed	Type: longlong Input compressed
loop_in_errors	Type: longlong Input errors
loop_in_frame	Type: longlong Input frame errors
loop_in_overrun	Type: longlong Input overrun

loop_in_fifo	Type: longlong Input fifo
loop_out_pkts	Type: longlong Output packets
loop_out_bytes	Type: longlong Output bytes
loop_out_underruns	Type: longlong Output underruns
loop_out_errors	Type: longlong Output errors
loop_out_collisions	Type: longlong Output collisions
loop_out_fifo	Type: longlong Output fifo
loop_out_carriers	Type: longlong Output carrier errors

Command Modes

- /exec

show_interface

show_interface *single*

Syntax Description

show_interface	Port_mgr hidden command
single	Type: interface interface type and number in module/slot format

Command Modes

- /exec

show interface brief (if_manager)

show interface brief [**__readonly__ TABLE_interface** *interface* [*vlan*] [*type*] [*portmode*] *state* [*state_rsn*] [*state_rsn_desc*] [*desc*] [*vrf*] [*ipv6_addr*] [*ip_addr*] [*speed*] [*mtu*] [*ratemode*] [*portchan*] [*proto*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
brief	Show brief info of interface
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

desc	Type: string Interface description
vrf	Type: string Vrf membership
ipv6_addr	Type: ipv6addr IPv6 address
ip_addr	Type: ipaddr IP address
mtu	Type: uinteger MTU

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
vlan	Type: string Vlan
type	Type: string Type

portmode	Port mode **routed value: 0** Layer 3 **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **pvlan value: 0x00400000** PVLAN **fabric value: 0x02000000** Fabric **1qtunl value: 0x01000000** 1q-Tunnel **f-path value: 0x00100003** FabricPath
ratemode	Type: _enum Interface port speed
portchan	Type: uinteger Port Channel Membership
proto	Type: string Port Channel Protocol

Command Modes

- /exec

show interface brief (if_manager)

show interface *ifloop_brf* **brief** [**__readonly__ TABLE_interface** *interface state* [*desc*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifloop_brf	Type: interface-mrange Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
desc	Type: string Interface description

Command Modes

- /exec

show interface brief (if_manager)

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
ifmgmt_brf	Type: interface-mrange Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
vrf	Type: string Vrf membership
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
ipv6_addr	Type: ipv6addr IPv6 address
ip_addr	Type: ipaddr IP address

mtu	Type: uinteger MTU
speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s

duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

Command Modes

- /exec

show interface brief (if_manager)

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
ifeth_brf	Type: interface-mrange Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
vlan	Type: string Vlan
type	Type: string Type

portmode	Port mode **routed value: 0** Layer 3 **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **pvlan value: 0x00400000** PVLAN **fabric value: 0x02000000** Fabric **1qtunl value: 0x01000000** 1q-Tunnel **f-path value: 0x00100003** FabricPath
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
ratemode	Type: _enum Interface port speed
portchan	Type: uinteger Port Channel Membership

Command Modes

- /exec

show interface brief (if_manager)

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
ifrange	Type: interface-mrange Enter interface type and number
brief	Show brief info of interface
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

overlay_mtu	Type: uinteger MTU
overlay_bandwidth	Type: uinteger Bandwidth
overlay_vrf	Type: string VRF
overlay_src_addr	Type: ipaddr Source address
overlay_dst_addr	Type: ipaddr Destination address

Command Modes

- /exec

show interface brief (if_manager)

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
ifpch_brf	Type: interface-mrange Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
vlan	Type: string Vlan
type	Type: string Type

portmode	Port mode **routed value: 0** Layer 3 **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **pvlan value: 0x00400000** PVLAN **fabric value: 0x02000000** Fabric **1qtunl value: 0x01000000** 1q-Tunnel **f-path value: 0x00100003** FabricPath
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
ratemode	Type: _enum Interface port speed
proto	Type: string Port Channel Protocol

Command Modes

- /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
ifid_tdr	Type: interface-mrange Enter interface type and number in module/slot format
cable-diagnostics-tdr	Show interface tdr test information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
distance1	Type: string Distance to fault for pair 1
distance2	Type: string Distance to fault for pair 2

distance3	Type: string Distance to fault for pair 3
distance4	Type: string Distance to fault for pair 4
pair1_status	Pair1 status **Terminated value: 0x0** no open or short on this pair **Short value: 0x1** short detected on this pair **Open value: 0x2** open detected on this pair **Test Failed value: 0x3** tdr test failed on this pair **Test Running value: 0x4** test is in progress **Test Not Run value: 0x5** test not run
pair2_status	Pair2 status **Terminated value: 0x0** no open or short on this pair **Short value: 0x1** short detected on this pair **Open value: 0x2** open detected on this pair **Test Failed value: 0x3** tdr test failed on this pair **Test Running value: 0x4** test is in progress **Test Not Run value: 0x5** test not run

pair3_status	Pair3 status **Terminated value: 0x0** no open or short on this pair **Short value: 0x1** short detected on this pair **Open value: 0x2** open detected on this pair **Test Failed value: 0x3** tdr test failed on this pair **Test Running value: 0x4** test is in progress **Test Not Run value: 0x5** test not run
pair4_status	Pair4 status **Terminated value: 0x0** no open or short on this pair **Short value: 0x1** short detected on this pair **Open value: 0x2** open detected on this pair **Test Failed value: 0x3** tdr test failed on this pair **Test Running value: 0x4** test is in progress **Test Not Run value: 0x5** test not run

Command Modes

- /exec

show interface capabilities (if_manager)

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*]

Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
model	Type: string Model
type	Type: string Type
speed	Type: string Speed
duplex	Type: string Duplex
trunk_encap	Type: string Trunk encap. type
dce_capable	DCE mode capable **no value: 0** No **yes value: 1** Yes

channel	Channel **no value: 0** No **yes value: 1** Yes
bcast_supp	Type: string Broadcast suppression
flo_ctrl	Type: string Flowcontrol
rate_mode	Type: string Rate mode
port_mode	Port mode **Unknown value: 0** Unknown **Switched value: 1** Switched **Routed value: 2** Routed **Routed,Switched value: 3** Routed, Switched
fast_start	Fast start **no value: 0** No **yes value: 1** Yes
qos_scheduling	Type: string QOS scheduling

cos_rewrite	CoS rewrite **no value: 0** No **yes value: 1** Yes
tos_rewrite	ToS rewrite **no value: 0** No **yes value: 1** Yes
inline_power	Inline power **no value: 0** No **yes value: 1** Yes
span	SPAN **no value: 0** No **yes value: 1** Yes
udld	UDLD **no value: 0** No **yes value: 1** Yes
mdix	MDIX **no value: 0** No **yes value: 1** Yes

tdr	TDR **no value: 0** No **yes value: 1** Yes
lnk_debounce	Link debounce **no value: 0** No **yes value: 1** Yes
lnk_debounce_time	Link debounce time **no value: 0** No **yes value: 1** Yes
fex_fabric	FEX Fabric **no value: 0** No **yes value: 1** Yes
dot1q_tunnel	dot1q-tunnel **no value: 0** No **yes value: 1** Yes
pvlan_trunk_mode	Private-vlan trunk mode **no value: 0** No **yes value: 1** Yes

port_group	Type: integer Port Group
port_group_members	Type: string Port Group Members
eee_capable	EEE (efficient-eth) **no value: 0** No **yes value: 1** Yes
pfc_capable	PFC Capable: **no value: 0** No **yes value: 1** Yes
bkout_capable	Breakout Capable: **no value: 0** No **yes value: 1** Yes
speed_group_capable	Speed group capable **no value: 0** No **yes value: 1** Yes

Command Modes

- /exec

show interface capabilities (if_manager)

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*]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_eth_cap	Type: interface-mrange Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
model	Type: string Model
type	Type: string Type
speed	Type: string Speed
duplex	Type: string Duplex
trunk_encap	Type: string Trunk encap. type

dce_capable	DCE mode capable **no value: 0** No **yes value: 1** Yes
channel	Channel **no value: 0** No **yes value: 1** Yes
bcast_supp	Type: string Broadcast suppression
flo_ctrl	Type: string Flowcontrol
rate_mode	Type: string Rate mode
port_mode	Port mode **Unknown value: 0** Unknown **Switched value: 1** Switched **Routed value: 2** Routed **Routed,Switched value: 3** Routed, Switched
fast_start	Fast start **no value: 0** No **yes value: 1** Yes

qos_scheduling	Type: string QOS scheduling
cos_rewrite	CoS rewrite **no value: 0** No **yes value: 1** Yes
tos_rewrite	ToS rewrite **no value: 0** No **yes value: 1** Yes
inline_power	Inline power **no value: 0** No **yes value: 1** Yes
span	SPAN **no value: 0** No **yes value: 1** Yes
udld	UDLD **no value: 0** No **yes value: 1** Yes

mdix	MDIX **no value: 0** No **yes value: 1** Yes
tdr	TDR **no value: 0** No **yes value: 1** Yes
lnk_debounce	Link debounce **no value: 0** No **yes value: 1** Yes
lnk_debounce_time	Link debounce time **no value: 0** No **yes value: 1** Yes
fex_fabric	FEX Fabric **no value: 0** No **yes value: 1** Yes
dot1q_tunnel	dot1q-tunnel **no value: 0** No **yes value: 1** Yes

pvlan_trunk_mode	Private-vlan trunk mode **no value: 0** No **yes value: 1** Yes
port_group	Type: integer Port Group
port_group_members	Type: string Port Group Members
eee_capable	EEE (efficient-eth) **no value: 0** No **yes value: 1** Yes
pfc_capable	PFC Capable: **no value: 0** No **yes value: 1** Yes
bkout_capable	Breakout Capable: **no value: 0** No **yes value: 1** Yes
speed_group_capable	Speed group capable **no value: 0** No **yes value: 1** Yes

Command Modes

- /exec

show interface counters (if_manager)

show interface counters [**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
module	Limit display to interfaces on module
module	Type: integer Enter module number
__readonly__	Read Only
interface_rx	Type: interface Interface index rx
interface_tx	Type: interface Interface index tx
TABLE_rx_counters	show Rx counters
TABLE_tx_counters	show Tx counters
eth_inpkts	Type: longlong Packets input
eth_inbytes	Type: longlong Bytes input
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts

eth_outpkts	Type: longlong Packets output
eth_outbytes	Type: longlong Bytes output
eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts
eth_l3in_bytes	Type: longlong L3 Rx bytes
eth_l3in_ucastpkts	Type: longlong L3 Rx Unicast pkts
eth_l3in_mcastpkts	Type: longlong L3 Rx Multicast pkts
eth_l3in_bcastpkts	Type: longlong L3 Rx Broadcast pkts
eth_l3out_bytes	Type: longlong L3 Tx bytes
eth_l3out_ucastpkts	Type: longlong L3 Tx Unicast pkts
eth_l3out_mcastpkts	Type: longlong L3 Tx Multicast pkts
eth_l3out_bcastpkts	Type: longlong L3 Tx Broadcast pkts

Command Modes

- /exec

show interface counters (if_manager)

show interface counters [**__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
__readonly__	Read Only
interface_rx	Type: interface Interface index rx
interface_tx	Type: interface Interface index tx
TABLE_rx_counters	show Rx counters
TABLE_tx_counters	show Tx counters
eth_inpkts	Type: longlong Packets input
eth_inbytes	Type: longlong Bytes input
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_outpkts	Type: longlong Packets output

eth_outbytes	Type: longlong Bytes output
eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts
eth_l3in_bytes	Type: longlong L3 Rx bytes
eth_l3in_ucastpkts	Type: longlong L3 Rx Unicast pkts
eth_l3in_mcastpkts	Type: longlong L3 Rx Multicast pkts
eth_l3in_bcastpkts	Type: longlong L3 Rx Broadcast pkts
eth_l3out_bytes	Type: longlong L3 Tx bytes
eth_l3out_ucastpkts	Type: longlong L3 Tx Unicast pkts
eth_l3out_mcastpkts	Type: longlong L3 Tx Multicast pkts
eth_l3out_bcastpkts	Type: longlong L3 Tx Broadcast pkts

Command Modes

- /exec

show interface counters (if_manager)

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
ifeth_ctr	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
snmp	Show SNMP MIB values
__readonly__	Read Only
interface_rx	Type: interface Interface index rx
interface_tx	Type: interface Interface index tx
TABLE_rx_counters	show Rx counters
TABLE_tx_counters	show Tx counters
eth_inbytes	Type: longlong Bytes input
eth_inucast	Type: longlong Unicasts input
eth_inmcast	Type: longlong Multicasts input
eth_inbcast	Type: longlong Broadcasts input
eth_outbytes	Type: longlong Bytes output

eth_outucast	Type: longlong Unicasts output
eth_outmcast	Type: longlong Multicasts output
eth_outbcast	Type: longlong Broadcasts output
eth_l3in_bytes	Type: longlong L3 Rx bytes
eth_l3in_ucastpkts	Type: longlong L3 Rx Unicast pkts
eth_l3in_mcastpkts	Type: longlong L3 Rx Multicast pkts
eth_l3in_bcastpkts	Type: longlong L3 Rx Broadcast pkts
eth_l3out_bytes	Type: longlong L3 Tx bytes
eth_l3out_ucastpkts	Type: longlong L3 Tx Unicast pkts
eth_l3out_mcastpkts	Type: longlong L3 Tx Multicast pkts
eth_l3out_bcastpkts	Type: longlong L3 Tx Broadcast pkts

Command Modes

- /exec

show interface counters (if_manager)

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
ifrange	Type: interface-mrange Enter interface type and number
counters	Show interface counters
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
overlay_load_interval	Type: uinteger Load interval
overlay_rx_ucastpkts	Type: longlong Received ucast pkts
overlay_rx_ucastbytes	Type: longlong Received ucast bytes
overlay_rx_mcastpkts	Type: longlong Received mcast pkts
overlay_rx_mcastbytes	Type: longlong Received mcast bytes
overlay_rx_bcastpkts	Type: longlong Received bcast pkts

overlay_rx_bcastbytes	Type: longlong Received bcast bytes
overlay_rx_pkts	Type: longlong Total received pkts
overlay_rx_bytes	Type: longlong Total received bytes
overlay_rx_bitrate	Type: longlong Receive bit rate
overlay_rx_pktrate	Type: longlong Receive pkt rate
overlay_tx_ucastpkts	Type: longlong Trasnmitted ucast pkts
overlay_tx_ucastbytes	Type: longlong Trasnmitted ucast bytes
overlay_tx_mcastpkts	Type: longlong Trasnmitted mcast pkts
overlay_tx_mcastbytes	Type: longlong Trasnmitted mcast bytes
overlay_tx_bcastpkts	Type: longlong Trasnmitted bcast pkts
overlay_tx_bcastbytes	Type: longlong Trasnmitted bcast bytes
overlay_tx_pkts	Type: longlong Total transmitted pkts
overlay_tx_bytes	Type: longlong Total transmitted bytes
overlay_tx_bitrate	Type: longlong Transmit bit rate
overlay_tx_pktrate	Type: longlong Transmit pkt rate

Command Modes

- /exec

show interface counters (if_manager)

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
ifid_ctr	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
snmp	Show SNMP MIB values
__readonly__	Read Only
interface_rx	Type: interface Interface index rx
interface_tx	Type: interface Interface index tx
TABLE_rx_counters	show Rx counters
TABLE_tx_counters	show Tx counters
eth_inpkts	Type: longlong Packets input
eth_inbytes	Type: longlong Bytes input
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts

eth_outpkts	Type: longlong Packets output
eth_outbytes	Type: longlong Bytes output
eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts

Command Modes

- /exec

show interface counters brief

show interface *ifeth_ctr_brf* **counters brief** [**__readonly__ TABLE_interface** *interface eth_load_intv1 eth_inrate1 eth_inframes1 eth_outrate1 eth_outframes1 eth_load_intv2 eth_inrate2 eth_inframes2 eth_outrate2 eth_outframes2 eth_load_intv3 eth_inrate3 eth_inframes3 eth_outrate3 eth_outframes3*]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_brf	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
brief	Show interface counters in brief
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
eth_load_intv1	Type: uinteger interval 1 timer value in sec
eth_inrate1	Type: uinteger interval 1 input rate in mbps
eth_inframes1	Type: uinteger interval 1 input rate in frames (pkts)
eth_outrate1	Type: uinteger interval 1 output rate in mbps
eth_outframes1	Type: uinteger interval 1 output rate in output frames (pkts)
eth_load_intv2	Type: uinteger interval 2 timer value in sec
eth_inrate2	Type: uinteger interval 2 input rate in mbps

eth_inframes2	Type: uinteger interval 2 input rate in frames (pkts)
eth_outrate2	Type: uinteger interval 2 output rate in mbps
eth_outframes2	Type: uinteger interval 2 output rate in output frames (pkts)
eth_load_intv3	Type: uinteger interval 3 timer value in sec
eth_inrate3	Type: uinteger interval 3 input rate in mbps
eth_inframes3	Type: uinteger interval 3 input rate in frames (pkts)
eth_outrate3	Type: uinteger interval 3 output rate in mbps
eth_outframes3	Type: uinteger interval 3 output rate in output frames (pkts)

Command Modes

- /exec

show interface counters detailed (if_manager)

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_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
ifmgmt_ctr_dtl	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
vdc_lvl_in_pkts	Type: longlong VDC level input packets
vdc_lvl_in_bytes	Type: longlong VDC level input bytes
vdc_lvl_in_ucast	Type: longlong VDC level input unicast packets
vdc_lvl_in_mcast	Type: longlong VDC level input multicast packets

vdc_lvl_in_bcast	Type: longlong VDC level input broadcast packets
vdc_lvl_in_bps	Type: longlong VDC level input bytes per second
vdc_lvl_in_pps	Type: longlong VDC level input packets per second
vdc_lvl_in_avg_pkts	Type: longlong VDC level average input packets
vdc_lvl_in_avg_bytes	Type: longlong VDC level average input bytes
vdc_lvl_out_pkts	Type: longlong VDC level output packets
vdc_lvl_out_bytes	Type: longlong VDC level output bytes
vdc_lvl_out_ucast	Type: longlong VDC level output unicast packets
vdc_lvl_out_mcast	Type: longlong VDC level output multicast packets
vdc_lvl_out_bcast	Type: longlong VDC level output broadcast packets
vdc_lvl_out_bps	Type: longlong VDC level output bytes per second
vdc_lvl_out_pps	Type: longlong VDC level output packets per second
vdc_lvl_out_avg_pkts	Type: longlong VDC level average output packets
vdc_lvl_out_avg_bytes	Type: longlong VDC level average output bytes
mgmt_in_pkts	Type: uinteger Input packets

mgmt_in_bytes	Type: uinteger Input bytes
mgmt_in_mcast	Type: uinteger Input multicast frames
mgmt_in_compressed	Type: uinteger Input compressed
mgmt_in_errors	Type: uinteger Input errors
mgmt_in_frame	Type: uinteger Input frame errors
mgmt_in_overrun	Type: uinteger Input overrun
mgmt_in_fifo	Type: uinteger Input fifo
mgmt_out_pkts	Type: uinteger Output packets
mgmt_out_bytes	Type: uinteger Output bytes
mgmt_out_underruns	Type: uinteger Output overruns
mgmt_out_errors	Type: uinteger Output errors
mgmt_out_collisions	Type: uinteger Output collisions
mgmt_out_fifo	Type: uinteger Output fifo
mgmt_out_carrier	Type: uinteger Output carrier errors
mgmt_align_err	Type: longlong Align error

mgmt_fcs_err	Type: longlong FCS error
mgmt_xmit_err	Type: longlong Transmit error
mgmt_rcv_err	Type: longlong Receive error
mgmt_undersize	Type: longlong Undersize
mgmt_outdisc	Type: longlong Out discard
mgmt_single_col	Type: longlong Single collision
mgmt_multi_col	Type: longlong Multiple collision
mgmt_late_col	Type: longlong Late collision
mgmt_excess_col	Type: longlong Excess collision
mgmt_carri_sen	Type: longlong Carrier sense
mgmt_runts	Type: longlong Runts
mgmt_giants	Type: longlong Giants
mgmt_sqetest_err	Type: longlong SQETest error
mgmt_deferred_tx	Type: longlong Deferred tx
mgmt_inmactx_err	Type: longlong In MAC tx

mgmt_inmacrx_err	Type: longlong In MAC rx
mgmt_symbol_err	Type: longlong Symbol error

Command Modes

- /exec

show interface counters detailed (if_manager)

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
ifloop_ctr_dtl	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
loop_in_pkts	Type: uinteger Input packets
loop_in_bytes	Type: uinteger Input bytes
loop_in_mcast	Type: uinteger Input multicast
loop_in_compressed	Type: uinteger Input compressed
loop_in_errors	Type: uinteger Input errors
loop_in_frame	Type: uinteger Input frame errors
loop_in_overrun	Type: uinteger Input overrun

loop_in_fifo	Type: uinteger Input fifo
loop_out_pkts	Type: uinteger Output packets
loop_out_bytes	Type: uinteger Output bytes
loop_out_underruns	Type: uinteger Output underruns
loop_out_errors	Type: uinteger Output errors
loop_out_collisions	Type: uinteger Output collisions
loop_out_fifo	Type: uinteger Output fifo
loop_out_carriers	Type: uinteger Output carrier errors

Command Modes

- /exec

show interface counters detailed (if_manager)

show interface *ifeth_ctr_dtl* **counters detailed [snmp]** [**__readonly__ TABLE_interface** *interface*
[*eth_load_interval1*] [*eth_load_interval1_rx*] [*eth_inrate1_bits*] [*eth_inrate1_pkts*]
[*eth_load_interval1_tx*] [*eth_outrate1_bits*] [*eth_outrate1_pkts*] [*eth_load_interval2*] [*eth_inrate2_bits*]
[*eth_inrate2_pkts*] [*eth_outrate2_bits*] [*eth_outrate2_pkts*] [*eth_load_interval3*] [*eth_inrate3_bits*]
[*eth_inrate3_pkts*] [*eth_outrate3_bits*] [*eth_outrate3_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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_dtl	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
snmp	Show SNMP MIB values
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface

eth_load_interval1	Type: uinteger interval 1 timer value in sec
eth_load_interval1_rx	Type: uinteger interval 1 timer value in sec
eth_inrate1_bits	Type: longlong interval 1 input rate bits/sec
eth_inrate1_pkts	Type: longlong interval 1 input rate pkts/sec
eth_load_interval1_tx	Type: uinteger interval 1 timer value in sec
eth_outrate1_bits	Type: longlong interval 1 output rate bits/sec
eth_outrate1_pkts	Type: longlong interval 1 output rate pkts/sec
eth_load_interval2	Type: uinteger interval 2 timer value in sec
eth_inrate2_bits	Type: longlong interval 2 input rate bits/sec
eth_inrate2_pkts	Type: longlong interval 2 input rate pkts/sec
eth_outrate2_bits	Type: longlong interval 2 output rate bits/sec
eth_outrate2_pkts	Type: longlong interval 2 output rate pkts/sec
eth_load_interval3	Type: uinteger interval 3 timer value in sec
eth_inrate3_bits	Type: longlong interval 3 input rate bits/sec
eth_inrate3_pkts	Type: longlong interval 3 input rate pkts/sec

eth_outrate3_bits	Type: longlong interval 3 output rate bits/sec
eth_outrate3_pkts	Type: longlong interval 3 output rate pkts/sec
eth_inpkts	Type: longlong Packets input
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_ingiants	Type: longlong giants
eth_inbytes	Type: longlong Bytes input
eth_storm_supp	Type: longlong storm suppression
eth_inb64	Type: longlong input pkts between 0 and 64 bytes
eth_inb65_127	Type: longlong input pkts between 65 and 127 bytes
eth_inb128_255	Type: longlong input pkts between 128 and 255 bytes
eth_inb256_511	Type: longlong input pkts between 256 and 511 bytes
eth_inb512_1023	Type: longlong input pkts between 512 and 1023 bytes
eth_inb1024_1518	Type: longlong input pkts between 1024 and 1518 bytes

eth_inb1519_1548	Type: longlong input pkts between 1519 and 1548 bytes
eth_intrunk	Type: longlong input trunk pkts
eth_outpkts	Type: longlong packets output
eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts
eth_outgiants	Type: longlong giants
eth_outbytes	Type: longlong bytes output
eth_outb64	Type: longlong output pkts between 0 and 64 bytes
eth_outb65_127	Type: longlong output pkts between 65 and 127 bytes
eth_outb128_255	Type: longlong output pkts between 128 and 255 bytes
eth_outb256_511	Type: longlong output pkts between 256 and 511 bytes
eth_outb512_1023	Type: longlong output pkts between 512 and 1023 bytes
eth_outb1024_1518	Type: longlong output pkts between 1024 and 1518 bytes
eth_outb1519_1548	Type: longlong output pkts between 1519 and 1548 bytes

eth_outtrunk	Type: longlong output trunk pkts
eth_nobuf	Type: longlong No buffer received
eth_runts	Type: longlong runts
eth_crc	Type: longlong CRC
eth_ecc	Type: longlong ECC
eth_overrun	Type: longlong overrun
eth_underrun	Type: longlong underruns
eth_ignored	Type: longlong ignored
eth_bad_eth	Type: longlong bad ether type drop
eth_bad_proto	Type: longlong bad protocol drops
eth_in_ifdown_drops	Type: longlong Input if-down drops
eth_coll	Type: longlong collisions
eth_latecoll	Type: longlong late collision
eth_lostcarrier	Type: longlong lost carrier
eth_nocarrier	Type: longlong no carrier

eth_babbles	Type: longlong babbles
eth_watchdog	Type: longlong watchdog
eth_dribble	Type: longlong input packets with dribble condition
eth_inerr	Type: longlong input errors
eth_outerr	Type: longlong output errors
eth_deferred	Type: longlong deferred
eth_jabbers	Type: longlong jabbers
eth_shortframe	Type: longlong short frames
eth_single_coll	Type: longlong single collisions
eth_multi_coll	Type: longlong multi collisions
eth_excess_coll	Type: longlong excessive collisions
eth_indiscard	Type: longlong discards
eth_bad_encap	Type: longlong bad encapsulation
eth_outcrc	Type: longlong Output CRC
eth_symbol	Type: longlong symbol errors

eth_out_drops	Type: longlong output drops
eth_bpdu_outlost	Type: longlong BPDU output lost
eth_cos0_outlost	Type: longlong output pkts
eth_cos1_outlost	Type: longlong output pkts
eth_cos2_outlost	Type: longlong output pkts
eth_cos3_outlost	Type: longlong output pkts
eth_cos4_outlost	Type: longlong output pkts
eth_cos5_outlost	Type: longlong output pkts
eth_cos6_outlost	Type: longlong output pkts
eth_cos7_outlost	Type: longlong output pkts
eth_inpause	Type: longlong pause input
eth_outpause	Type: longlong PAUSE output
eth_resets	Type: longlong interface resets
eth_sqetest	Type: longlong SQE test
eth_l2_ucastpkts	Type: longlong L2 switched ucast pkts

eth_l2_ucastbytes	Type: longlong L2 switched ucast bytes
eth_l2_mcastpkts	Type: longlong L2 switched mcast pkts
eth_l2_mcastbytes	Type: longlong L2 switched mcast bytes
eth_l2_bcastpkts	Type: longlong L2 switched bcast pkts
eth_l2_bcastbytes	Type: longlong L2 switched bcast bytes
eth_l3in_ucastpkts	Type: longlong L3 in switched ucast pkts
eth_l3in_ucastbytes	Type: longlong L3 in switched ucast bytes
eth_l3in_mcastpkts	Type: longlong L3 in switched mcast pkts
eth_l3in_mcastbytes	Type: longlong L3 in switched mcast bytes
eth_l3in_bcastpkts	Type: longlong L3 in switched bcast pkts
eth_l3in_bcastbytes	Type: longlong L3 in switched bcast bytes
eth_l3out_ucastpkts	Type: longlong L3 out switched ucast pkts
eth_l3out_ucastbytes	Type: longlong L3 out switched ucast bytes
eth_l3out_mcastpkts	Type: longlong L3 out switched mcast pkts
eth_l3out_mcastbytes	Type: longlong L3 out switched mcast bytes

eth_l3out_bcastpkts	Type: longlong L3 out switched bcast pkts
eth_l3out_bcastbytes	Type: longlong L3 out switched bcast bytes
eth_l3in_routed_pkts	Type: longlong L3 in routed pkts
eth_l3in_routed_bytes	Type: longlong L3 in routed bytes
eth_l3out_routed_pkts	Type: longlong L3 out routed pkts
eth_l3out_routed_bytes	Type: longlong L3 out routed bytes
eth_l3avg1_inbytes	Type: longlong Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	Type: longlong Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	Type: longlong Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	Type: longlong Load interval 1 L3 average out switched pkts
eth_ipmcast	Type: longlong IP multicast
eth_inhw_switched	Type: longlong Input H/W Switched
eth_insw_switched	Type: longlong Input S/W Switched
eth_throtles	Type: longlong throttles
eth_frame	Type: longlong frame

eth_outhw_switched	Type: longlong Out H/W Switched
eth_outsw_switched	Type: longlong Out S/W Switched
eth_buffail	Type: longlong output buffer failures
eth_bufswapped	Type: longlong output buffers swapped out
eth_arpdrops	Type: longlong arp drops
eth_out_ifdown_drops	Type: longlong Output if-down drops

Command Modes

- /exec

show interface counters detailed (if_manager)

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_interval1*] [*eth_load_interval1_rx*] [*eth_inrate1_bits*] [*eth_inrate1_pkts*] [*eth_load_interval1_tx*] [*eth_outrate1_bits*] [*eth_outrate1_pkts*] [*eth_load_interval2*] [*eth_inrate2_bits*] [*eth_inrate2_pkts*] [*eth_outrate2_bits*] [*eth_outrate2_pkts*] [*eth_load_interval3*] [*eth_inrate3_bits*] [*eth_inrate3_pkts*] [*eth_outrate3_bits*] [*eth_outrate3_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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
detailed	Show only non-zero counters
snmp	Show SNMP MIB values
__readonly__	Read Only
TABLE_interface	show interface
interface	Type: interface Interface index
vdc_lvl_in_pkts	Type: longlong VDC level input packets
vdc_lvl_in_bytes	Type: longlong VDC level input bytes
vdc_lvl_in_ucast	Type: longlong VDC level input unicast packets
vdc_lvl_in_mcast	Type: longlong VDC level input multicast packets
vdc_lvl_in_bcast	Type: longlong VDC level input broadcast packets
vdc_lvl_in_bps	Type: longlong VDC level input bytes per second
vdc_lvl_in_pps	Type: longlong VDC level input packets per second
vdc_lvl_in_avg_pkts	Type: longlong VDC level average input packets
vdc_lvl_in_avg_bytes	Type: longlong VDC level average input bytes

vdc_lvl_out_pkts	Type: longlong VDC level output packets
vdc_lvl_out_bytes	Type: longlong VDC level output bytes
vdc_lvl_out_ucast	Type: longlong VDC level output unicast packets
vdc_lvl_out_mcast	Type: longlong VDC level output multicast packets
vdc_lvl_out_bcast	Type: longlong VDC level output broadcast packets
vdc_lvl_out_bps	Type: longlong VDC level output bytes per second
vdc_lvl_out_pps	Type: longlong VDC level output packets per second
vdc_lvl_out_avg_pkts	Type: longlong VDC level average output packets
vdc_lvl_out_avg_bytes	Type: longlong VDC level average output bytes
mgmt_in_pkts	Type: uinteger Input packets
mgmt_in_bytes	Type: uinteger Input bytes
mgmt_in_mcast	Type: uinteger Input multicast frames
mgmt_in_compressed	Type: uinteger Input compressed
mgmt_in_errors	Type: uinteger Input errors
mgmt_in_frame	Type: uinteger Input frame errors

mgmt_in_overrun	Type: uinteger Input overrun
mgmt_in_fifo	Type: uinteger Input fifo
mgmt_out_pkts	Type: uinteger Output packets
mgmt_out_bytes	Type: uinteger Output bytes
mgmt_out_underruns	Type: uinteger Output overruns
mgmt_out_errors	Type: uinteger Output errors
mgmt_out_collisions	Type: uinteger Output collisions
mgmt_out_fifo	Type: uinteger Output fifo
mgmt_out_carrier	Type: uinteger Output carrier errors
mgmt_align_err	Type: longlong Align error
mgmt_fcs_err	Type: longlong FCS error
mgmt_xmit_err	Type: longlong Transmit error
mgmt_rcv_err	Type: longlong Receive error
mgmt_undersize	Type: longlong Undersize
mgmt_outdisc	Type: longlong Out discard

mgmt_single_col	Type: longlong Single collision
mgmt_multi_col	Type: longlong Multiple collision
mgmt_late_col	Type: longlong Late collision
mgmt_excess_col	Type: longlong Excess collision
mgmt_carri_sen	Type: longlong Carrier sense
mgmt_runts	Type: longlong Runts
mgmt_giants	Type: longlong Giants
mgmt_sqetest_err	Type: longlong SQETest error
mgmt_deferred_tx	Type: longlong Deferred tx
mgmt_inmactx_err	Type: longlong In MAC tx
mgmt_inmacrx_err	Type: longlong In MAC rx
mgmt_symbol_err	Type: longlong Symbol error
loop_in_pkts	Type: uinteger Input packets
loop_in_bytes	Type: uinteger Input bytes
loop_in_mcast	Type: uinteger Input multicast

loop_in_compressed	Type: uinteger Input compressed
loop_in_errors	Type: uinteger Input errors
loop_in_frame	Type: uinteger Input frame errors
loop_in_overrun	Type: uinteger Input overrun
loop_in_fifo	Type: uinteger Input fifo
loop_out_pkts	Type: uinteger Output packets
loop_out_bytes	Type: uinteger Output bytes
loop_out_underruns	Type: uinteger Output underruns
loop_out_errors	Type: uinteger Output errors
loop_out_collisions	Type: uinteger Output collisions
loop_out_fifo	Type: uinteger Output fifo
loop_out_carriers	Type: uinteger Output carrier errors
eth_load_interval1	Type: uinteger interval 1 timer value in sec
eth_load_interval1_rx	Type: uinteger interval 1 timer value in sec
eth_inrate1_bits	Type: longlong interval 1 input rate bits/sec

eth_inrate1_pkts	Type: longlong interval 1 input rate pkts/sec
eth_load_interval1_tx	Type: uinteger interval 1 timer value in sec
eth_outrate1_bits	Type: longlong interval 1 output rate bits/sec
eth_outrate1_pkts	Type: longlong interval 1 output rate pkts/sec
eth_load_interval2	Type: uinteger interval 2 timer value in sec
eth_inrate2_bits	Type: longlong interval 2 input rate bits/sec
eth_inrate2_pkts	Type: longlong interval 2 input rate pkts/sec
eth_outrate2_bits	Type: longlong interval 2 output rate bits/sec
eth_outrate2_pkts	Type: longlong interval 2 output rate pkts/sec
eth_load_interval3	Type: uinteger interval 3 timer value in sec
eth_inrate3_bits	Type: longlong interval 3 input rate bits/sec
eth_inrate3_pkts	Type: longlong interval 3 input rate pkts/sec
eth_outrate3_bits	Type: longlong interval 3 output rate bits/sec
eth_outrate3_pkts	Type: longlong interval 3 output rate pkts/sec
eth_inpkts	Type: longlong Packets input

eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_ingiants	Type: longlong giants
eth_inbytes	Type: longlong Bytes input
eth_storm_supp	Type: longlong storm suppression
eth_inb64	Type: longlong input pkts between 0 and 64 bytes
eth_inb65_127	Type: longlong input pkts between 65 and 127 bytes
eth_inb128_255	Type: longlong input pkts between 128 and 255 bytes
eth_inb256_511	Type: longlong input pkts between 256 and 511 bytes
eth_inb512_1023	Type: longlong input pkts between 512 and 1023 bytes
eth_inb1024_1518	Type: longlong input pkts between 1024 and 1518 bytes
eth_inb1519_1548	Type: longlong input pkts between 1519 and 1548 bytes
eth_intrunk	Type: longlong input trunk pkts
eth_outpkts	Type: longlong packets output

eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts
eth_outgiants	Type: longlong giants
eth_outbytes	Type: longlong bytes output
eth_outb64	Type: longlong output pkts between 0 and 64 bytes
eth_outb65_127	Type: longlong output pkts between 65 and 127 bytes
eth_outb128_255	Type: longlong output pkts between 128 and 255 bytes
eth_outb256_511	Type: longlong output pkts between 256 and 511 bytes
eth_outb512_1023	Type: longlong output pkts between 512 and 1023 bytes
eth_outb1024_1518	Type: longlong output pkts between 1024 and 1518 bytes
eth_outb1519_1548	Type: longlong output pkts between 1519 and 1548 bytes
eth_outtrunk	Type: longlong output trunk pkts
eth_nobuf	Type: longlong No buffer received
eth_runts	Type: longlong runts

eth_crc	Type: longlong CRC
eth_ecc	Type: longlong ECC
eth_overrun	Type: longlong overrun
eth_underrun	Type: longlong underruns
eth_ignored	Type: longlong ignored
eth_bad_eth	Type: longlong bad ether type drop
eth_bad_proto	Type: longlong bad protocol drops
eth_in_ifdown_drops	Type: longlong Input if-down drops
eth_coll	Type: longlong collisions
eth_latecoll	Type: longlong late collision
eth_lostcarrier	Type: longlong lost carrier
eth_nocarrier	Type: longlong no carrier
eth_babbles	Type: longlong babbles
eth_watchdog	Type: longlong watchdog
eth_dribble	Type: longlong input packets with dribble condition

eth_inerr	Type: longlong input errors
eth_outerr	Type: longlong output errors
eth_deferred	Type: longlong deferred
eth_jabbers	Type: longlong jabbers
eth_shortframe	Type: longlong short frames
eth_single_coll	Type: longlong single collisions
eth_multi_coll	Type: longlong multi collisions
eth_excess_coll	Type: longlong excessive collisions
eth_indiscard	Type: longlong discards
eth_bad_encap	Type: longlong bad encapsulation
eth_outcrc	Type: longlong Output CRC
eth_symbol	Type: longlong symbol errors
eth_out_drops	Type: longlong output drops
eth_bpdu_outlost	Type: longlong BPDU output lost
eth_cos0_outlost	Type: longlong output pkts

eth_cos1_outlost	Type: longlong output pkts
eth_cos2_outlost	Type: longlong output pkts
eth_cos3_outlost	Type: longlong output pkts
eth_cos4_outlost	Type: longlong output pkts
eth_cos5_outlost	Type: longlong output pkts
eth_cos6_outlost	Type: longlong output pkts
eth_cos7_outlost	Type: longlong output pkts
eth_inpause	Type: longlong pause input
eth_outpause	Type: longlong PAUSE output
eth_resets	Type: longlong interface resets
eth_sqetest	Type: longlong SQE test
eth_l2_ucastpkts	Type: longlong L2 switched ucast pkts
eth_l2_ucastbytes	Type: longlong L2 switched ucast bytes
eth_l2_mcastpkts	Type: longlong L2 switched mcast pkts
eth_l2_mcastbytes	Type: longlong L2 switched mcast bytes

eth_l2_bcastpkts	Type: longlong L2 switched bcast pkts
eth_l2_bcastbytes	Type: longlong L2 switched bcast bytes
eth_l3in_ucastpkts	Type: longlong L3 in switched ucast pkts
eth_l3in_ucastbytes	Type: longlong L3 in switched ucast bytes
eth_l3in_mcastpkts	Type: longlong L3 in switched mcast pkts
eth_l3in_mcastbytes	Type: longlong L3 in switched mcast bytes
eth_l3in_bcastpkts	Type: longlong L3 in switched bcast pkts
eth_l3in_bcastbytes	Type: longlong L3 in switched bcast bytes
eth_l3out_ucastpkts	Type: longlong L3 out switched ucast pkts
eth_l3out_ucastbytes	Type: longlong L3 out switched ucast bytes
eth_l3out_mcastpkts	Type: longlong L3 out switched mcast pkts
eth_l3out_mcastbytes	Type: longlong L3 out switched mcast bytes
eth_l3out_bcastpkts	Type: longlong L3 out switched bcast pkts
eth_l3out_bcastbytes	Type: longlong L3 out switched bcast bytes
eth_l3in_routed_pkts	Type: longlong L3 in routed pkts

eth_l3in_routed_bytes	Type: longlong L3 in routed bytes
eth_l3out_routed_pkts	Type: longlong L3 out routed pkts
eth_l3out_routed_bytes	Type: longlong L3 out routed bytes
eth_l3avg1_inbytes	Type: longlong Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	Type: longlong Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	Type: longlong Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	Type: longlong Load interval 1 L3 average out switched pkts
eth_ipmcast	Type: longlong IP multicast
eth_inhw_switched	Type: longlong Input H/W Switched
eth_insw_switched	Type: longlong Input S/W Switched
eth_throtles	Type: longlong throttles
eth_frame	Type: longlong frame
eth_outhw_switched	Type: longlong Out H/W Switched
eth_outsw_switched	Type: longlong Out S/W Switched
eth_buffail	Type: longlong output buffer failures

eth_bufswapped	Type: longlong output buffers swapped out
eth_arpdrops	Type: longlong arp drops
eth_out_ifdown_drops	Type: longlong Output if-down drops
eth_fcoe_in_pkts	Type: longlong fcoe in pkts
eth_fcoe_in_octets	Type: longlong fcoe in octets
eth_fcoe_out_pkts	Type: longlong fcoe out pkts
eth_fcoe_out_octets	Type: longlong fcoe out octets
eth_nfcoe_in_pkts	Type: longlong nfcoe in pkts
eth_nfcoe_in_octets	Type: longlong nfcoe in octets
eth_nfcoe_out_pkts	Type: longlong nfcoe out pkts
eth_nfcoe_out_octets	Type: longlong nfcoe out octets
svi_routed_pkts_in	Type: long in routed pkts
svi_routed_bytes_in	Type: long in routed bytes
svi_routed_pkts_out	Type: long out routed pkts
svi_routed_bytes_out	Type: long out routed bytes

svi_ucast_pkts_in	Type: long in unicast pkts
svi_ucast_bytes_in	Type: long in unicast bytes
svi_mcast_pkts_in	Type: long in multicast pkts
svi_mcast_bytes_in	Type: long in multicast bytes
svi_ucast_pkts_out	Type: long out unicast pkts
svi_ucast_bytes_out	Type: long out unicast bytes
svi_mcast_pkts_out	Type: long out multicast pkts
svi_mcast_bytes_out	Type: long out multicast bytes
svi_ipv4_ucast_pkts_in	Type: long IPv4 in unicast pkts
svi_ipv4_ucast_bytes_in	Type: long IPv4 in unicast bytes
svi_ipv4_ucast_pkts_out	Type: long IPv4 out unicast pkts
svi_ipv4_ucast_bytes_out	Type: long IPv4 out unicast bytes
svi_ipv4_mcast_pkts_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_bytes_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_pkts_out	Type: long IPv4 out multicast pkts

svi_ipv4_mcast_bytes_out	Type: long IPv4 out multicast bytes
svi_ipv6_ucast_pkts_in	Type: long IPv6 in unicast pkts
svi_ipv6_ucast_bytes_in	Type: long IPv6 in unicast bytes
svi_ipv6_ucast_pkts_out	Type: long IPv6 out unicast pkts
svi_ipv6_ucast_bytes_out	Type: long IPv6 out unicast bytes
svi_ipv6_mcast_pkts_in	Type: long IPv6 in multicast pkts
svi_ipv6_mcast_bytes_in	Type: long IPv6 in multicast bytes
svi_ipv6_mcast_pkts_out	Type: long IPv6 out multicast pkts
svi_ipv6_mcast_bytes_out	Type: long IPv6 out multicast bytes
svi_average_input_bits	Type: long Input rate bits/sec
svi_average_input_packets	Type: long Input rate bits/sec
svi_average_output_bits	Type: long Output rate bits/sec
svi_average_output_packets	Type: long Output rate bits/sec
svi_rate_in_mins	Type: long Time in mins for which average rate is computed
svi_time_last_cleared	Type: string Time last cleared

svi_tx_load	Type: uinteger Tx Load
svi_rx_load	Type: uinteger Rx Load
svi_reliability	Type: uinteger Reliability

Command Modes

- /exec

show interface counters detailed all (if_manager)

show interface *ifid_ctr_dtl_all* **counters detailed all [snmp]**

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_ctr_dtl_all	Type: interface-mrange 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	Show SNMP MIB values

Command Modes

- /exec

show interface counters detailed all (if_manager)

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
ifmgmt_ctr_dtl_all	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
vdc_lvl_in_pkts	Type: longlong VDC level input packets
vdc_lvl_in_bytes	Type: longlong VDC level input bytes
vdc_lvl_in_ucast	Type: longlong VDC level input unicast packets
vdc_lvl_in_mcast	Type: longlong VDC level input multicast packets

vdc_lvl_in_bcast	Type: longlong VDC level input broadcast packets
vdc_lvl_in_bps	Type: longlong VDC level input bytes per second
vdc_lvl_in_pps	Type: longlong VDC level input packets per second
vdc_lvl_in_avg_pkts	Type: longlong VDC level average input packets
vdc_lvl_in_avg_bytes	Type: longlong VDC level average input bytes
vdc_lvl_out_pkts	Type: longlong VDC level output packets
vdc_lvl_out_bytes	Type: longlong VDC level output bytes
vdc_lvl_out_ucast	Type: longlong VDC level output unicast packets
vdc_lvl_out_mcast	Type: longlong VDC level output multicast packets
vdc_lvl_out_bcast	Type: longlong VDC level output broadcast packets
vdc_lvl_out_bps	Type: longlong VDC level output bytes per second
vdc_lvl_out_pps	Type: longlong VDC level output packets per second
vdc_lvl_out_avg_pkts	Type: longlong VDC level average output packets
vdc_lvl_out_avg_bytes	Type: longlong VDC level average output bytes
mgmt_in_pkts	Type: uinteger Input packets

mgmt_in_bytes	Type: uinteger Input bytes
mgmt_in_mcast	Type: uinteger Input multicast frames
mgmt_out_pkts	Type: uinteger Output packets
mgmt_out_bytes	Type: uinteger Output bytes
mgmt_in_errors	Type: uinteger Input errors
mgmt_out_errors	Type: uinteger Output errors
mgmt_in_fifo	Type: uinteger Input fifo
mgmt_out_fifo	Type: uinteger Output fifo
mgmt_in_compressed	Type: uinteger Input compressed
mgmt_in_frame	Type: uinteger Input frame errors
mgmt_in_overrun	Type: uinteger Input overrun
mgmt_out_underruns	Type: uinteger Output overruns
mgmt_out_collisions	Type: uinteger Output collisions
mgmt_out_carrier	Type: uinteger Output carrier errors
mgmt_align_err	Type: longlong Align error

mgmt_fcs_err	Type: longlong FCS error
mgmt_xmit_err	Type: longlong Transmit error
mgmt_rcv_err	Type: longlong Receive error
mgmt_undersize	Type: longlong Undersize
mgmt_outdisc	Type: longlong Out discard
mgmt_single_col	Type: longlong Single collision
mgmt_multi_col	Type: longlong Multiple collision
mgmt_late_col	Type: longlong Late collision
mgmt_excess_col	Type: longlong Excess collision
mgmt_carri_sen	Type: longlong Carrier sense
mgmt_runts	Type: longlong Runts
mgmt_giants	Type: longlong Giants
mgmt_sqetest_err	Type: longlong SQETest error
mgmt_deferred_tx	Type: longlong Deferred tx
mgmt_inmactx_err	Type: longlong In MAC tx

mgmt_inmacrx_err	Type: longlong In MAC rx
mgmt_symbol_err	Type: longlong Symbol error

Command Modes

- /exec

show interface counters detailed all (if_manager)

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
ifloop_ctr_dtl_all	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
rx_total_pkts	Type: longlong total input packets
tx_total_pkts	Type: longlong total output packets
rx_mcast_pkts	Type: longlong input multicasts
rx_octets	Type: longlong input bytes
tx_octets	Type: longlong output bytes
loop_in_pkts	Type: longlong Input packets

loop_in_bytes	Type: longlong Input bytes
loop_in_mcast	Type: longlong Input multicast
loop_in_compressed	Type: longlong Input compressed
loop_in_errors	Type: longlong Input errors
loop_in_frame	Type: longlong Input frame errors
loop_in_overrun	Type: longlong Input overrun
loop_in_fifo	Type: longlong Input fifo
loop_out_pkts	Type: longlong Output packets
loop_out_bytes	Type: longlong Output bytes
loop_out_underruns	Type: longlong Output underruns
loop_out_errors	Type: longlong Output errors
loop_out_collisions	Type: longlong Output collisions
loop_out_fifo	Type: longlong Output fifo
loop_out_carriers	Type: longlong Output carrier errors

Command Modes

- /exec

show interface counters detailed all (if_manager)

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
ifrange	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	Show SNMP MIB values
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
svi_routed_pkts_in	Type: long in routed pkts
svi_routed_bytes_in	Type: long in routed bytes
svi_routed_pkts_out	Type: long out routed pkts
svi_routed_bytes_out	Type: long out routed bytes

svi_ucast_pkts_in	Type: long in unicast pkts
svi_ucast_bytes_in	Type: long in unicast bytes
svi_mcast_pkts_in	Type: long in multicast pkts
svi_mcast_bytes_in	Type: long in multicast bytes
svi_ucast_pkts_out	Type: long out unicast pkts
svi_ucast_bytes_out	Type: long out unicast bytes
svi_mcast_pkts_out	Type: long out multicast pkts
svi_mcast_bytes_out	Type: long out multicast bytes
svi_ipv4_ucast_pkts_in	Type: long IPv4 in unicast pkts
svi_ipv4_ucast_bytes_in	Type: long IPv4 in unicast bytes
svi_ipv4_ucast_pkts_out	Type: long IPv4 out unicast pkts
svi_ipv4_ucast_bytes_out	Type: long IPv4 out unicast bytes
svi_ipv4_mcast_pkts_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_bytes_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_pkts_out	Type: long IPv4 out multicast pkts

svi_ipv4_mcast_bytes_out	Type: long IPv4 out multicast bytes
svi_ipv6_ucast_pkts_in	Type: long IPv6 in unicast pkts
svi_ipv6_ucast_bytes_in	Type: long IPv6 in unicast bytes
svi_ipv6_ucast_pkts_out	Type: long IPv6 out unicast pkts
svi_ipv6_ucast_bytes_out	Type: long IPv6 out unicast bytes
svi_ipv6_mcast_pkts_in	Type: long IPv6 in multicast pkts
svi_ipv6_mcast_bytes_in	Type: long IPv6 in multicast bytes
svi_ipv6_mcast_pkts_out	Type: long IPv6 out multicast pkts
svi_ipv6_mcast_bytes_out	Type: long IPv6 out multicast bytes
svi_average_input_bits	Type: long Input rate bits/sec
svi_average_input_packets	Type: long Input rate bits/sec
svi_average_output_bits	Type: long Output rate bits/sec
svi_average_output_packets	Type: long Output rate bits/sec
svi_rate_in_mins	Type: long Time in mins for which average rate is computed
svi_time_last_cleared	Type: string Time last cleared

svi_tx_load	Type: uinteger Tx Load
svi_rx_load	Type: uinteger Rx Load
svi_reliability	Type: uinteger Reliability

Command Modes

- /exec

show interface counters detailed all (if_manager)

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_load_interval2*] [*eth_inrate2_bits*] [*eth_inrate2_pkts*] [*eth_outrate2_bits*] [*eth_outrate2_pkts*] [*eth_load_interval3*] [*eth_inrate3_bits*] [*eth_inrate3_pkts*] [*eth_outrate3_bits*] [*eth_outrate3_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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_dtl_all	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters

all	everything
snmp	Show SNMP MIB values
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
rx_total_pkts	Type: longlong total input packets
tx_total_pkts	Type: longlong total output packets
rx_ucast_pkts	Type: longlong input unicasts
rx_mcast_pkts	Type: longlong input multicasts
rx_bcast_pkts	Type: longlong input broadcasts
rx_octets	Type: longlong input bytes
tx_ucast_pkts	Type: longlong output unicasts
tx_mcast_pkts	Type: longlong output multicasts
tx_bcast_pkts	Type: longlong output broadcasts
tx_octets	Type: longlong output bytes
rxtx_pkts_64octets	Type: longlong all pkts between 0 and 64 bytes
rxtx_pkts_65_127octets	Type: longlong all pkts between 65 and 127 bytes

rxtx_pkts_128_255octets	Type: longlong all pkts between 128 and 255 bytes
rxtx_pkts_256_511octets	Type: longlong all pkts between 256 and 511 bytes
rxtx_pkts_512_1023octets	Type: longlong all pkts between 512 and 1023 bytes
rxtx_pkts_1024_1518octets	Type: longlong all pkts between 1024 and 1518 bytes
rxtx_pkts_1519_1548octets	Type: longlong all pkts between 1519 and 1548 bytes
rx_trunk_frames	Type: longlong input trunk pkts
tx_trunk_frames	Type: longlong output trunk pkts
rx_drop_events	Type: longlong dropped pkts
rxtx_giants	Type: longlong giants
eth_load_interval1_rx	Type: uinteger interval 1 timer value in sec
eth_inrate1_bits	Type: longlong interval 1 input rate bits/sec
eth_inrate1_pkts	Type: longlong interval 1 input rate pkts/sec
eth_load_interval1_tx	Type: uinteger interval 1 timer value in sec
eth_outrate1_bits	Type: longlong interval 1 output rate bits/sec
eth_outrate1_pkts	Type: longlong interval 1 output rate pkts/sec

eth_load_interval2	Type: uinteger interval 2 timer value in sec
eth_inrate2_bits	Type: longlong interval 2 input rate bits/sec
eth_inrate2_pkts	Type: longlong interval 2 input rate pkts/sec
eth_outrate2_bits	Type: longlong interval 2 output rate bits/sec
eth_outrate2_pkts	Type: longlong interval 2 output rate pkts/sec
eth_load_interval3	Type: uinteger interval 3 timer value in sec
eth_inrate3_bits	Type: longlong interval 3 input rate bits/sec
eth_inrate3_pkts	Type: longlong interval 3 input rate pkts/sec
eth_outrate3_bits	Type: longlong interval 3 output rate bits/sec
eth_outrate3_pkts	Type: longlong interval 3 output rate pkts/sec
eth_l2_ucastpkts	Type: longlong L2 switched ucast pkts
eth_l2_ucastbytes	Type: longlong L2 switched ucast bytes
eth_l2_mcastpkts	Type: longlong L2 switched mcast pkts
eth_l2_mcastbytes	Type: longlong L2 switched mcast bytes
eth_l2_bcastpkts	Type: longlong L2 switched bcast pkts

eth_l2_bcastbytes	Type: longlong L2 switched bcast bytes
eth_l3in_ucastpkts	Type: longlong IPv4 L3 in switched ucast pkts
eth_l3in_ucastbytes	Type: longlong IPv4 L3 in switched ucast bytes
eth_l3in_mcastpkts	Type: longlong IPv4 L3 in switched mcast pkts
eth_l3in_mcastbytes	Type: longlong IPv4 L3 in switched mcast bytes
eth_l3in_bcastpkts	Type: longlong L3 in switched bcast pkts
eth_l3in_bcastbytes	Type: longlong L3 in switched bcast bytes
eth_l3out_ucastpkts	Type: longlong IPv4 L3 out switched ucast pkts
eth_l3out_ucastbytes	Type: longlong IPv4 L3 out switched ucast bytes
eth_l3out_mcastpkts	Type: longlong IPv4 L3 out switched mcast pkts
eth_l3out_mcastbytes	Type: longlong IPv4 L3 out switched mcast bytes
eth_l3out_bcastpkts	Type: longlong L3 out switched bcast pkts
eth_l3out_bcastbytes	Type: longlong L3 out switched bcast bytes
eth_l3in_routed_pkts	Type: longlong L3 in routed pkts
eth_l3in_routed_bytes	Type: longlong L3 in routed bytes

eth_l3out_routed_pkts	Type: longlong L3 out routed pkts
eth_l3out_routed_bytes	Type: longlong L3 out routed bytes
eth_l3avg1_inbytes	Type: longlong Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	Type: longlong Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	Type: longlong Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	Type: longlong Load interval 1 L3 average out switched pkts
eth_l3avg2_inbytes	Type: longlong Load interval 2 L3 average in switched bytes
eth_l3avg2_inpkts	Type: longlong Load interval 2 L3 average in switched pkts
eth_l3avg2_outbytes	Type: longlong Load interval 2 L3 average out switched bytes
eth_l3avg2_outpkts	Type: longlong Load interval 2 L3 average out switched pkts
eth_l3avg3_inbytes	Type: longlong Load interval 3 L3 average in switched bytes
eth_l3avg3_inpkts	Type: longlong Load interval 3 L3 average in switched pkts
eth_l3avg3_outbytes	Type: longlong Load interval 3 L3 average out switched bytes
eth_l3avg3_outpkts	Type: longlong Load interval 3 L3 average out switched pkts
eth_inpkts	Type: longlong Packets input

eth_inbytes	Type: longlong Bytes input
eth_nobuf	Type: longlong No buffer received
eth_inbcast	Type: longlong Broadcasts
eth_inmcast	Type: longlong Multicasts
eth_inucast	Type: longlong Unicasts
eth_ingiants	Type: longlong giants
eth_ipmcast	Type: longlong IP multicast
eth_inhw_switched	Type: longlong Input H/W Switched
eth_insw_switched	Type: longlong Input S/W Switched
eth_runts	Type: longlong runts
eth_storm_supp	Type: longlong storm suppression
eth_throtles	Type: longlong throttles
eth_inerr	Type: longlong input errors
eth_crc	Type: longlong CRC
eth_ecc	Type: longlong ECC

eth_frame	Type: longlong frame
eth_overrun	Type: longlong overrun
eth_ignored	Type: longlong ignored
eth_watchdog	Type: longlong watchdog
eth_outbcast	Type: longlong Broadcasts
eth_outmcast	Type: longlong Multicasts
eth_outucast	Type: longlong Unicasts
eth_outgiants	Type: longlong giants
eth_inpause	Type: longlong pause input
eth_dribble	Type: longlong input packets with dribble condition
eth_in_ifdown_drops	Type: longlong Input if-down drops
eth_bad_eth	Type: longlong bad ether type drop
eth_bad_proto	Type: longlong bad protocol drops
eth_outpkts	Type: longlong packets output
eth_outbytes	Type: longlong bytes output

eth_underrun	Type: longlong underruns
eth_outhw_switched	Type: longlong Out H/W Switched
eth_outsw_switched	Type: longlong Out S/W Switched
eth_outerr	Type: longlong output errors
eth_coll	Type: longlong collisions
eth_resets	Type: longlong interface resets
eth_babbles	Type: longlong babbles
eth_latecoll	Type: longlong late collision
eth_deferred	Type: longlong deferred
eth_lostcarrier	Type: longlong lost carrier
eth_nocarrier	Type: longlong no carrier
eth_outpause	Type: longlong PAUSE output
eth_buffail	Type: longlong output buffer failures
eth_bufswapped	Type: longlong output buffers swapped out
eth_arpdrops	Type: longlong arp drops

eth_out_ifdown_drops	Type: longlong Output if-down drops
eth_single_coll	Type: longlong single collisions
eth_multi_coll	Type: longlong multi collisions
eth_excess_coll	Type: longlong excessive collisions
eth_jabbers	Type: longlong jabbers
eth_shortframe	Type: longlong short frames
eth_indiscard	Type: longlong discards
eth_bad_encap	Type: longlong bad encapsulation
eth_outcrc	Type: longlong Output CRC
eth_symbol	Type: longlong symbol errors
eth_out_drops	Type: longlong output drops
eth_sqetest	Type: longlong SQE test
eth_inb64	Type: longlong input pkts between 0 and 64 bytes
eth_inb65_127	Type: longlong input pkts between 65 and 127 bytes
eth_inb128_255	Type: longlong input pkts between 128 and 255 bytes

eth_inb256_511	Type: longlong input pkts between 256 and 511 bytes
eth_inb512_1023	Type: longlong input pkts between 512 and 1023 bytes
eth_inb1024_1518	Type: longlong input pkts between 1024 and 1518 bytes
eth_inb1519_1548	Type: longlong input pkts between 1519 and 1548 bytes
eth_intrunk	Type: longlong input trunk pkts
eth_outb64	Type: longlong output pkts between 0 and 64 bytes
eth_outb65_127	Type: longlong output pkts between 65 and 127 bytes
eth_outb128_255	Type: longlong output pkts between 128 and 255 bytes
eth_outb256_511	Type: longlong output pkts between 256 and 511 bytes
eth_outb512_1023	Type: longlong output pkts between 512 and 1023 bytes
eth_outb1024_1518	Type: longlong output pkts between 1024 and 1518 bytes
eth_outb1519_1548	Type: longlong output pkts between 1519 and 1548 bytes
eth_outtrunk	Type: longlong output trunk pkts
eth_bpdu_outlost	Type: longlong BPDU output lost
eth_cos0_outlost	Type: longlong output pkts

eth_cos1_outlost	Type: longlong output pkts
eth_cos2_outlost	Type: longlong output pkts
eth_cos3_outlost	Type: longlong output pkts
eth_cos4_outlost	Type: longlong output pkts
eth_cos5_outlost	Type: longlong output pkts
eth_cos6_outlost	Type: longlong output pkts
eth_cos7_outlost	Type: longlong output pkts
eth_fcoe_in_pkts	Type: longlong fcoe in pkts
eth_fcoe_in_octets	Type: longlong fcoe in octets
eth_fcoe_out_pkts	Type: longlong fcoe out pkts
eth_fcoe_out_octets	Type: longlong fcoe out octets
eth_nfcoe_in_pkts	Type: longlong nfcoe in pkts
eth_nfcoe_in_octets	Type: longlong nfcoe in octets
eth_nfcoe_out_pkts	Type: longlong nfcoe out pkts
eth_nfcoe_out_octets	Type: longlong nfcoe out octets

eth_eee_atx_lpi_msec	Type: longlong Tx Lpi usec
eth_eee_arcv_lpi_msec	Type: longlong Rx Lpi usec
eth_eee_atx_lpi_transitions	Type: longlong Tx Lpi requests
eth_eee_arcv_lpi_transitions	Type: longlong Rx Lpi indications
eth_phy_ber_count	Type: longlong Bit error rate counter
eth_phy_errblks_count	Type: longlong Errored blocks counter

Command Modes

- /exec

show interface counters detailed all (if_manager)

show interface counters detailed all [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_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*] [*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_load_interval2*] [*eth_inrate2_bits*] [*eth_inrate2_pkts*] [*eth_outrate2_bits*] [*eth_outrate2_pkts*] [*eth_load_interval3*] [*eth_inrate3_bits*] [*eth_inrate3_pkts*] [*eth_outrate3_bits*] [*eth_outrate3_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*] [*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*] [*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
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
snmp	Show SNMP MIB values
__readonly__	Read Only
TABLE_interface	show interface
interface	Type: interface Interface index
vdc_lvl_in_pkts	Type: longlong VDC level input packets
vdc_lvl_in_bytes	Type: longlong VDC level input bytes
vdc_lvl_in_ucast	Type: longlong VDC level input unicast packets
vdc_lvl_in_mcast	Type: longlong VDC level input multicast packets
vdc_lvl_in_bcast	Type: longlong VDC level input broadcast packets
vdc_lvl_in_bps	Type: longlong VDC level input bytes per second

vdc_lvl_in_pps	Type: longlong VDC level input packets per second
vdc_lvl_in_avg_pkts	Type: longlong VDC level average input packets
vdc_lvl_in_avg_bytes	Type: longlong VDC level average input bytes
vdc_lvl_out_pkts	Type: longlong VDC level output packets
vdc_lvl_out_bytes	Type: longlong VDC level output bytes
vdc_lvl_out_ucast	Type: longlong VDC level output unicast packets
vdc_lvl_out_mcast	Type: longlong VDC level output multicast packets
vdc_lvl_out_bcast	Type: longlong VDC level output broadcast packets
vdc_lvl_out_bps	Type: longlong VDC level output bytes per second
vdc_lvl_out_pps	Type: longlong VDC level output packets per second
vdc_lvl_out_avg_pkts	Type: longlong VDC level average output packets
vdc_lvl_out_avg_bytes	Type: longlong VDC level average output bytes
mgmt_in_pkts	Type: uinteger Input packets
mgmt_in_bytes	Type: uinteger Input bytes
mgmt_in_mcast	Type: uinteger Input multicast frames

mgmt_out_pkts	Type: uinteger Output packets
mgmt_out_bytes	Type: uinteger Output bytes
mgmt_in_errors	Type: uinteger Input errors
mgmt_out_errors	Type: uinteger Output errors
mgmt_in_fifo	Type: uinteger Input fifo
mgmt_out_fifo	Type: uinteger Output fifo
mgmt_in_compressed	Type: uinteger Input compressed
mgmt_in_frame	Type: uinteger Input frame errors
mgmt_in_overrun	Type: uinteger Input overrun
mgmt_out_underruns	Type: uinteger Output overruns
mgmt_out_collisions	Type: uinteger Output collisions
mgmt_out_carrier	Type: uinteger Output carrier errors
mgmt_align_err	Type: longlong Align error
mgmt_fcs_err	Type: longlong FCS error
mgmt_xmit_err	Type: longlong Transmit error

mgmt_rcv_err	Type: longlong Receive error
mgmt_undersize	Type: longlong Undersize
mgmt_outdisc	Type: longlong Out discard
mgmt_single_col	Type: longlong Single collision
mgmt_multi_col	Type: longlong Multiple collision
mgmt_late_col	Type: longlong Late collision
mgmt_excess_col	Type: longlong Excess collision
mgmt_carri_sen	Type: longlong Carrier sense
mgmt_runts	Type: longlong Runts
mgmt_giants	Type: longlong Giants
mgmt_sqetest_err	Type: longlong SQETest error
mgmt_deferred_tx	Type: longlong Deferred tx
mgmt_inmactx_err	Type: longlong In MAC tx
mgmt_inmacrx_err	Type: longlong In MAC rx
mgmt_symbol_err	Type: longlong Symbol error

rx_total_pkts	Type: longlong total input packets
tx_total_pkts	Type: longlong total output packets
rx_ucast_pkts	Type: longlong input unicasts
rx_mcast_pkts	Type: longlong input multicasts
rx_bcast_pkts	Type: longlong input broadcasts
rx_octets	Type: longlong input bytes
tx_ucast_pkts	Type: longlong output unicasts
tx_mcast_pkts	Type: longlong output multicasts
tx_bcast_pkts	Type: longlong output broadcasts
tx_octets	Type: longlong output bytes
rxtx_pkts_64octets	Type: longlong all pkts between 0 and 64 bytes
rxtx_pkts_65_127octets	Type: longlong all pkts between 65 and 127 bytes
rxtx_pkts_128_255octets	Type: longlong all pkts between 128 and 255 bytes
rxtx_pkts_256_511octets	Type: longlong all pkts between 256 and 511 bytes
rxtx_pkts_512_1023octets	Type: longlong all pkts between 512 and 1023 bytes

rxtx_pkts_1024_1518octets	Type: longlong all pkts between 1024 and 1518 bytes
rxtx_pkts_1519_1548octets	Type: longlong all pkts between 1519 and 1548 bytes
rx_trunk_frames	Type: longlong input trunk pkts
tx_trunk_frames	Type: longlong output trunk pkts
rx_drop_events	Type: longlong dropped pkts
rxtx_giants	Type: longlong giants
eth_load_interval1_rx	Type: uinteger interval 1 timer value in sec
eth_inrate1_bits	Type: longlong interval 1 input rate bits/sec
eth_inrate1_pkts	Type: longlong interval 1 input rate pkts/sec
eth_load_interval1_tx	Type: uinteger interval 1 timer value in sec
eth_outrate1_bits	Type: longlong interval 1 output rate bits/sec
eth_outrate1_pkts	Type: longlong interval 1 output rate pkts/sec
eth_load_interval2	Type: uinteger interval 2 timer value in sec
eth_inrate2_bits	Type: longlong interval 2 input rate bits/sec
eth_inrate2_pkts	Type: longlong interval 2 input rate pkts/sec

eth_outrate2_bits	Type: longlong interval 2 output rate bits/sec
eth_outrate2_pkts	Type: longlong interval 2 output rate pkts/sec
eth_load_interval3	Type: uinteger interval 3 timer value in sec
eth_inrate3_bits	Type: longlong interval 3 input rate bits/sec
eth_inrate3_pkts	Type: longlong interval 3 input rate pkts/sec
eth_outrate3_bits	Type: longlong interval 3 output rate bits/sec
eth_outrate3_pkts	Type: longlong interval 3 output rate pkts/sec
eth_l2_ucastpkts	Type: longlong L2 switched ucast pkts
eth_l2_ucastbytes	Type: longlong L2 switched ucast bytes
eth_l2_mcastpkts	Type: longlong L2 switched mcast pkts
eth_l2_mcastbytes	Type: longlong L2 switched mcast bytes
eth_l2_bcastpkts	Type: longlong L2 switched bcast pkts
eth_l2_bcastbytes	Type: longlong L2 switched bcast bytes
eth_l3in_ucastpkts	Type: longlong IPv4 L3 in switched ucast pkts
eth_l3in_ucastbytes	Type: longlong IPv4 L3 in switched ucast bytes

eth_l3in_mcastpkts	Type: longlong IPv4 L3 in switched mcast pkts
eth_l3in_mcastbytes	Type: longlong IPv4 L3 in switched mcast bytes
eth_l3in_bcastpkts	Type: longlong L3 in switched bcast pkts
eth_l3in_bcastbytes	Type: longlong L3 in switched bcast bytes
eth_l3out_ucastpkts	Type: longlong IPv4 L3 out switched ucast pkts
eth_l3out_ucastbytes	Type: longlong IPv4 L3 out switched ucast bytes
eth_l3out_mcastpkts	Type: longlong IPv4 L3 out switched mcast pkts
eth_l3out_mcastbytes	Type: longlong IPv4 L3 out switched mcast bytes
eth_l3out_bcastpkts	Type: longlong L3 out switched bcast pkts
eth_l3out_bcastbytes	Type: longlong L3 out switched bcast bytes
eth_l3in_routed_pkts	Type: longlong L3 in routed pkts
eth_l3in_routed_bytes	Type: longlong L3 in routed bytes
eth_l3out_routed_pkts	Type: longlong L3 out routed pkts
eth_l3out_routed_bytes	Type: longlong L3 out routed bytes
eth_l3avg1_inbytes	Type: longlong Load interval 1 L3 average in switched bytes

eth_l3avg1_inpkts	Type: longlong Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	Type: longlong Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	Type: longlong Load interval 1 L3 average out switched pkts
eth_l3avg2_inbytes	Type: longlong Load interval 2 L3 average in switched bytes
eth_l3avg2_inpkts	Type: longlong Load interval 2 L3 average in switched pkts
eth_l3avg2_outbytes	Type: longlong Load interval 2 L3 average out switched bytes
eth_l3avg2_outpkts	Type: longlong Load interval 2 L3 average out switched pkts
eth_l3avg3_inbytes	Type: longlong Load interval 3 L3 average in switched bytes
eth_l3avg3_inpkts	Type: longlong Load interval 3 L3 average in switched pkts
eth_l3avg3_outbytes	Type: longlong Load interval 3 L3 average out switched bytes
eth_l3avg3_outpkts	Type: longlong Load interval 3 L3 average out switched pkts
eth_inpkts	Type: longlong Packets input
eth_inbytes	Type: longlong Bytes input
eth_nobuf	Type: longlong No buffer received
eth_inbcast	Type: longlong Broadcasts

eth_inmcast	Type: longlong Multicasts
eth_inucast	Type: longlong Unicasts
eth_ingiants	Type: longlong giants
eth_ipmcast	Type: longlong IP multicast
eth_inhw_switched	Type: longlong Input H/W Switched
eth_insw_switched	Type: longlong Input S/W Switched
eth_runts	Type: longlong runts
eth_storm_supp	Type: longlong storm suppression
eth_throtles	Type: longlong throttles
eth_inerr	Type: longlong input errors
eth_crc	Type: longlong CRC
eth_ecc	Type: longlong ECC
eth_frame	Type: longlong frame
eth_overrun	Type: longlong overrun
eth_ignored	Type: longlong ignored

eth_watchdog	Type: longlong watchdog
eth_outbcast	Type: longlong Broadcasts
eth_outmcast	Type: longlong Multicasts
eth_outucast	Type: longlong Unicasts
eth_outgiants	Type: longlong giants
eth_inpause	Type: longlong pause input
eth_dribble	Type: longlong input packets with dribble condition
eth_in_ifdown_drops	Type: longlong Input if-down drops
eth_bad_eth	Type: longlong bad ether type drop
eth_bad_proto	Type: longlong bad protocol drops
eth_outpkts	Type: longlong packets output
eth_outbytes	Type: longlong bytes output
eth_underrun	Type: longlong underruns
eth_outhw_switched	Type: longlong Out H/W Switched
eth_outsw_switched	Type: longlong Out S/W Switched

eth_outerr	Type: longlong output errors
eth_coll	Type: longlong collisions
eth_resets	Type: longlong interface resets
eth_babbles	Type: longlong babbles
eth_latecoll	Type: longlong late collision
eth_deferred	Type: longlong deferred
eth_lostcarrier	Type: longlong lost carrier
eth_nocarrier	Type: longlong no carrier
eth_outpause	Type: longlong PAUSE output
eth_buffail	Type: longlong output buffer failures
eth_bufswapped	Type: longlong output buffers swapped out
eth_arpdrops	Type: longlong arp drops
eth_out_ifdown_drops	Type: longlong Output if-down drops
eth_single_coll	Type: longlong single collisions
eth_multi_coll	Type: longlong multi collisions

eth_excess_coll	Type: longlong excessive collisions
eth_jabbers	Type: longlong jabbers
eth_shortframe	Type: longlong short frames
eth_indiscard	Type: longlong discards
eth_bad_encap	Type: longlong bad encapsulation
eth_outcrc	Type: longlong Output CRC
eth_symbol	Type: longlong symbol errors
eth_out_drops	Type: longlong output drops
eth_sqetest	Type: longlong SQE test
eth_inb64	Type: longlong input pkts between 0 and 64 bytes
eth_inb65_127	Type: longlong input pkts between 65 and 127 bytes
eth_inb128_255	Type: longlong input pkts between 128 and 255 bytes
eth_inb256_511	Type: longlong input pkts between 256 and 511 bytes
eth_inb512_1023	Type: longlong input pkts between 512 and 1023 bytes
eth_inb1024_1518	Type: longlong input pkts between 1024 and 1518 bytes

eth_inb1519_1548	Type: longlong input pkts between 1519 and 1548 bytes
eth_intrunk	Type: longlong input trunk pkts
eth_outb64	Type: longlong output pkts between 0 and 64 bytes
eth_outb65_127	Type: longlong output pkts between 65 and 127 bytes
eth_outb128_255	Type: longlong output pkts between 128 and 255 bytes
eth_outb256_511	Type: longlong output pkts between 256 and 511 bytes
eth_outb512_1023	Type: longlong output pkts between 512 and 1023 bytes
eth_outb1024_1518	Type: longlong output pkts between 1024 and 1518 bytes
eth_outb1519_1548	Type: longlong output pkts between 1519 and 1548 bytes
eth_outtrunk	Type: longlong output trunk pkts
eth_bpdu_outlost	Type: longlong BPDU output lost
eth_cos0_outlost	Type: longlong output pkts
eth_cos1_outlost	Type: longlong output pkts
eth_cos2_outlost	Type: longlong output pkts
eth_cos3_outlost	Type: longlong output pkts

eth_cos4_outlost	Type: longlong output pkts
eth_cos5_outlost	Type: longlong output pkts
eth_cos6_outlost	Type: longlong output pkts
eth_cos7_outlost	Type: longlong output pkts
eth_fcoe_in_pkts	Type: longlong fcoe in pkts
eth_fcoe_in_octets	Type: longlong fcoe in octets
eth_fcoe_out_pkts	Type: longlong fcoe out pkts
eth_fcoe_out_octets	Type: longlong fcoe out octets
eth_nfcoe_in_pkts	Type: longlong nfcoe in pkts
eth_nfcoe_in_octets	Type: longlong nfcoe in octets
eth_nfcoe_out_pkts	Type: longlong nfcoe out pkts
eth_nfcoe_out_octets	Type: longlong nfcoe out octets
eth_eee_atx_lpi_msec	Type: longlong Tx Lpi usec
eth_eee_arcv_lpi_msec	Type: longlong Rx Lpi usec
eth_eee_atx_lpi_transitions	Type: longlong Tx Lpi requests

eth_eee_arcv_lpi_transitions	Type: longlong Rx Lpi indications
eth_phy_ber_count	Type: longlong Bit error rate counter
eth_phy_errblks_count	Type: longlong Errored blocks counter
loop_in_pkts	Type: longlong Input packets
loop_in_bytes	Type: longlong Input bytes
loop_in_mcast	Type: longlong Input multicast
loop_in_compressed	Type: longlong Input compressed
loop_in_errors	Type: longlong Input errors
loop_in_frame	Type: longlong Input frame errors
loop_in_overrun	Type: longlong Input overrun
loop_in_fifo	Type: longlong Input fifo
loop_out_pkts	Type: longlong Output packets
loop_out_bytes	Type: longlong Output bytes
loop_out_underruns	Type: longlong Output underruns
loop_out_errors	Type: longlong Output errors

loop_out_collisions	Type: longlong Output collisions
loop_out_fifo	Type: longlong Output fifo
loop_out_carriers	Type: longlong Output carrier errors
svi_routed_pkts_in	Type: long in routed pkts
svi_routed_bytes_in	Type: long in routed bytes
svi_routed_pkts_out	Type: long out routed pkts
svi_routed_bytes_out	Type: long out routed bytes
svi_ucast_pkts_in	Type: long in unicast pkts
svi_ucast_bytes_in	Type: long in unicast bytes
svi_mcast_pkts_in	Type: long in multicast pkts
svi_mcast_bytes_in	Type: long in multicast bytes
svi_ucast_pkts_out	Type: long out unicast pkts
svi_ucast_bytes_out	Type: long out unicast bytes
svi_mcast_pkts_out	Type: long out multicast pkts
svi_mcast_bytes_out	Type: long out multicast bytes

svi_ipv4_ucast_pkts_in	Type: long IPv4 in unicast pkts
svi_ipv4_ucast_bytes_in	Type: long IPv4 in unicast bytes
svi_ipv4_ucast_pkts_out	Type: long IPv4 out unicast pkts
svi_ipv4_ucast_bytes_out	Type: long IPv4 out unicast bytes
svi_ipv4_mcast_pkts_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_bytes_in	Type: long IPv4 in multicast bytes
svi_ipv4_mcast_pkts_out	Type: long IPv4 out multicast pkts
svi_ipv4_mcast_bytes_out	Type: long IPv4 out multicast bytes
svi_ipv6_ucast_pkts_in	Type: long IPv6 in unicast pkts
svi_ipv6_ucast_bytes_in	Type: long IPv6 in unicast bytes
svi_ipv6_ucast_pkts_out	Type: long IPv6 out unicast pkts
svi_ipv6_ucast_bytes_out	Type: long IPv6 out unicast bytes
svi_ipv6_mcast_pkts_in	Type: long IPv6 in multicast pkts
svi_ipv6_mcast_bytes_in	Type: long IPv6 in multicast bytes
svi_ipv6_mcast_pkts_out	Type: long IPv6 out multicast pkts

svi_ipv6_mcast_bytes_out	Type: long IPv6 out multicast bytes
svi_average_input_bits	Type: long Input rate bits/sec
svi_average_input_packets	Type: long Input rate bits/sec
svi_average_output_bits	Type: long Output rate bits/sec
svi_average_output_packets	Type: long Output rate bits/sec
svi_rate_in_mins	Type: long Time in mins for which average rate is computed
svi_time_last_cleared	Type: string Time last cleared
svi_tx_load	Type: uinteger Tx Load
svi_rx_load	Type: uinteger Rx Load
svi_reliability	Type: uinteger Reliability

Command Modes

- /exec

show interface counters errors (if_manager)

show interface counters errors [**module** *module*] [**__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_inmacrx_err*] [*eth_inmactx_err*] [*eth_symbol_err*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
errors	Show interface error counters
module	Limit display to interfaces on module
module	Type: integer Enter module number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
eth_align_err	Type: longlong Align error
eth_fcs_err	Type: longlong FCS error
eth_xmit_err	Type: longlong Transmit error
eth_rcv_err	Type: longlong Receive error
eth_undersize	Type: longlong Undersize
eth_outdisc	Type: longlong Out discard

eth_single_col	Type: longlong Single collision
eth_multi_col	Type: longlong Multiple collision
eth_late_col	Type: longlong Late collision
eth_excess_col	Type: longlong Excess collision
eth_carri_sen	Type: longlong Carrier sense
eth_runts	Type: longlong Runts
eth_giants	Type: longlong Giants
eth_sqetest_err	Type: longlong SQETest error
eth_deferred_tx	Type: longlong Deferred tx
eth_inmacrx_err	Type: longlong In MAC rx
eth_inmactx_err	Type: longlong In MAC tx
eth_symbol_err	Type: longlong Symbol error

Command Modes

- /exec

show interface counters errors (if_manager)

show interface *loop_ctr_errs* **counters errors**

Syntax Description

show	Show running system information
interface	Show interface status and information
loop_ctr_errs	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters

Command Modes

- /exec

show interface counters errors (if_manager)

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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_errs	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters
snmp	Show SNMP MIB values
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
eth_align_err	Type: longlong Align error
eth_fcs_err	Type: longlong FCS error
eth_xmit_err	Type: longlong Transmit error
eth_rcv_err	Type: longlong Receive error
eth_undersize	Type: longlong Undersize
eth_outdisc	Type: longlong Out discard

eth_single_col	Type: longlong Single collision
eth_multi_col	Type: longlong Multiple collision
eth_late_col	Type: longlong Late collision
eth_excess_col	Type: longlong Excess collision
eth_carri_sen	Type: longlong Carrier sense
eth_runts	Type: longlong Runts
eth_giants	Type: longlong Giants
eth_sqetest_err	Type: longlong SQETest error
eth_deferred_tx	Type: longlong Deferred tx
eth_inmactx_err	Type: longlong In MAC tx
eth_inmacrx_err	Type: longlong In MAC rx
eth_symbol_err	Type: longlong Symbol error

Command Modes

- /exec

show interface counters errors fex

show interface counters errors fex *fex_num* [**__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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
errors	Show interface error counters
fex	Limit display to interfaces on a FEX
fex_num	Type: integer min: 100 max: 199 Enter FEX number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
eth_align_err	Type: longlong Align error
eth_fcs_err	Type: longlong FCS error
eth_xmit_err	Type: longlong Transmit error
eth_rcv_err	Type: longlong Receive error
eth_undersize	Type: longlong Undersize
eth_outdisc	Type: longlong Out discard

eth_single_col	Type: longlong Single collision
eth_multi_col	Type: longlong Multiple collision
eth_late_col	Type: longlong Late collision
eth_excess_col	Type: longlong Excess collision
eth_carri_sen	Type: longlong Carrier sense
eth_runts	Type: longlong Runts
eth_giants	Type: longlong Giants
eth_sqetest_err	Type: longlong SQETest error
eth_deferred_tx	Type: longlong Deferred tx
eth_inmactx_err	Type: longlong In MAC tx
eth_inmacrx_err	Type: longlong In MAC rx
eth_symbol_err	Type: longlong Symbol error

Command Modes

- /exec

show interface counters fex

show interface counters fex *mod_num* [**__readonly__ TABLE_rx_counters** *interface eth_inpkts* [*eth_inucast*] [*eth_inmcast*] [*eth_inbcast*] **TABLE_tx_counters** *interface eth_outpkts* [*eth_outucast*] [*eth_outmcast*] [*eth_outbcast*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
fex	Enter fex ID
mod_num	Type: integer min: 100 max: 199 Enter fex ID
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_rx_counters	show Rx counters
TABLE_tx_counters	show Tx counters
eth_inpkts	Type: longlong Packets input
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_outpkts	Type: longlong Packets output
eth_outucast	Type: longlong Unicasts

eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts

Command Modes

- /exec

show interface counters snmp

show interface counters snmp [**module** *module*] [**__readonly__ TABLE_rx_counters** *interface eth_inpkts* [*eth_inucast*] [*eth_inmcast*] [*eth_inbcast*] [*eth_l3in_bytes*] [*eth_l3in_ucastpkts*] [*eth_l3in_mcastpkts*] [*eth_l3in_bcastpkts*] **TABLE_tx_counters** *interface eth_outpkts* [*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	Limit display to interfaces on module
module	Type: integer Enter module number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_rx_counters	show Rx counters
TABLE_tx_counters	show Tx counters
eth_inpkts	Type: longlong Packets input
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_outpkts	Type: longlong Packets output

eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts
eth_l3in_bytes	Type: longlong L3 Rx bytes
eth_l3in_ucastpkts	Type: longlong L3 Rx Unicast pkts
eth_l3in_mcastpkts	Type: longlong L3 Rx Multicast pkts
eth_l3in_bcastpkts	Type: longlong L3 Rx Broadcast pkts
eth_l3out_bytes	Type: longlong L3 Tx bytes
eth_l3out_ucastpkts	Type: longlong L3 Tx Unicast pkts
eth_l3out_mcastpkts	Type: longlong L3 Tx Multicast pkts
eth_l3out_bcastpkts	Type: longlong L3 Tx Broadcast pkts

Command Modes

- /exec

show interface counters snmp fex

show interface counters snmp fex *fex_num* [**__readonly__ TABLE_rx_counters** *interface eth_inpkts* [*eth_inucast*] [*eth_inmcast*] [*eth_inbcast*] **TABLE_tx_counters** *interface eth_outpkts* [*eth_outucast*] [*eth_outmcast*] [*eth_outbcast*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
snmp	Show SNMP MIB values
fex	Limit display to interfaces on a FEX
fex_num	Type: integer min: 100 max: 199 Enter FEX number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_rx_counters	show Rx counters
TABLE_tx_counters	show Tx counters
eth_inpkts	Type: longlong Packets input
eth_inucast	Type: longlong Unicasts
eth_inmcast	Type: longlong Multicasts
eth_inbcast	Type: longlong Broadcasts
eth_outpkts	Type: longlong Packets output

eth_outucast	Type: longlong Unicasts
eth_outmcast	Type: longlong Multicasts
eth_outbcast	Type: longlong Broadcasts

Command Modes

- /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
ifeth_ctr_trnk	Type: interface-mrange Enter interface type and number in module/slot format
counters	Show interface counters
trunk	Show interface trunk counters
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
eth_trunk_frames_tx	Type: uinteger Trunk frame transmitted
eth_trunk_frames_rx	Type: uinteger Trunk frames received
eth_wrong_encap	Type: uinteger Wrong encapsulation

Command Modes

- /exec

show interface debounce (if_manager)

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
ifeth_dbnc	Type: interface-mrange Enter interface type and number in module/slot format
debounce	Show interface debounce time information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
debounce	Type: string Debounce time
debounce_val	Type: uinteger Value(ms)

Command Modes

- /exec

show interface debounce (if_manager)

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__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
debounce	Type: string Debounce time
debounce_val	Type: uinteger Value(ms)

Command Modes

- /exec

show interface description (if_manager)

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
ifid_mgmt_loop	Type: interface-mrange Enter interface type and number in module/slot format
description	Show interface description
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
protocol	Type: string Protocol
desc	Type: string Description

Command Modes

- /exec

show interface description (if_manager)

show interface *ifid_eth* **description** [**__readonly__ TABLE_interface** *interface* [*state*] [*type*] [*speed*] [*protocol*] [*desc*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_eth	Type: interface-mrange Enter interface type and number in module/slot format
description	Show interface description
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
type	Type: string Type

speed	Speed **-- value: 0** undefined **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s
protocol	Type: string Protocol
desc	Type: string Description

Command Modes

- /exec

show interface description (if_manager)

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
iftun_desc	Type: interface-mrange Enter tunnel interface number
description	Show interface description
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
protocol	Type: string Protocol
desc	Type: string Description

Command Modes

- /exec

show interface description (if_manager)

show interface *ifrange* **description** [**__readonly__ TABLE_interface** *interface state protocol desc*]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Type: interface-mrange Enter tunnel interface number
description	Show interface description
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
protocol	Type: string Protocol
desc	Type: string Description

Command Modes

- /exec

show interface description (if_manager)

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
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
type	Type: string Type

speed	Speed **-- value: 0** undefined **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s
protocol	Type: string Protocol
desc	Type: string Description

Command Modes

- /exec

show interface description (svi)

show interface *ifid* **description** [**__readonly__** *start if_index LINE*]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid	Type: interface-mrange VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
description	Interface specific description
__readonly__	Read Only
start	Type: uinteger Start
if_index	Type: interface Interface
LINE	Type: string length: 254 Description

Command Modes

- /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
ifeth_fcoe	Type: interface-mrange Enter interface type and number in module/slot format
fcoe	Show interface fcoe information *Not available in this release.*
__readonly__	Read Only
TABLE_interface	show interface
interface	Type: interface Interface index
state	Type: string State of interface
vfc	Type: string VFC
vfc_bound	Type: string Binding information

Command Modes

- /exec

show interface fex-conf

show interface *if_id* **fex-conf** [**__readonly__** *fbr_if rchas_id rmod_no*]

Syntax Description

show	Show running system information
interface	Show interface status and information
if_id	Type: interface-mrange Enter interface type and number in module/slot format
fex-conf	Show interface fex information
__readonly__	Read Only
fbr_if	Type: interface Interface name
rchas_id	Type: uinteger Configured fex number
rmod_no	Type: uinteger Configured fex module number

Command Modes

- /exec

show interface fex-fabric

show interface fex-fabric [**__readonly__ TABLE_fex_fabric** *fex_no fbr_port fex_uplink chas_vendor fex_model chas_ser mod_vendor mod_model fex_ser mod_no mgmt_inst fbr_state*]

Syntax Description

show	Show running system information
interface	Show interface status and information
fex-fabric	Show all FEX fabric ports
__readonly__	Read Only
TABLE_fex_fabric	Discovered fex fabric ports
fex_no	Type: uinteger Configured chassis number
fbr_port	Type: interface Interface name
fex_uplink	Type: uinteger Remote Link id
chas_vendor	Type: string Chassis Vendor
fex_model	Type: string Chassis Model
chas_ser	Type: string Chassis serial Number
mod_vendor	Type: string Module Vendor
mod_model	Type: string Module Model
fex_ser	Type: string Module serial Number
mod_no	Type: uinteger Module Number(Left/Right module)

mgmt_inst	Type: string Management instance
fbr_state	Fabric port state **None value: 0** fabric port in state none **Created value: 1** fabric port in state created **Discovered value: 2** fabric port in state discovered **Configured value: 3** fabric port in state configured **Fabric_Up value: 4** fabric port in state fabric up **Connecting value: 5** fabric port in state connecting **Active value: 6** fabric port in state active **Incompatible_topology value: 7** fabric port in state incompatible topology **Disconnected value: 8** fabric port in state disconnected **Identity_mismatch value: 9** fabric port in state identity mismatch

Command Modes

- /exec

show interface fex-intf

show interface *if_id* **fex-intf** [**__readonly__ TABLE_fabric_if** *fbr_if* **TABLE_sat_if** *sat_if*]

Syntax Description

show	Show running system information
interface	Show interface status and information
if_id	Type: interface-mrange Enter interface type and number in module/slot format
fex-intf	Show FEX ports pinned to fabric port
__readonly__	Read Only
TABLE_fabric_if	Fabric interface satellite ports
fbr_if	Type: interface Fabric Interface name
TABLE_sat_if	Satellite ports
sat_if	Type: interface FEX Interface name

Command Modes

- /exec

show interface flowcontrol (if_manager)

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
ifeth_fl_ctrl	Type: interface-mrange Enter interface type and number in module/slot format
flowcontrol	Show interface flowcontrol information *Not available in this release.*
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
send_admin	Send flowcontrol admin **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired
send_oper	Send flowcontrol oper **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired

recv_admin	Receive flowcontrol admin **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
recv_oper	Receive flowcontrol oper **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
rxpause	Type: longlong RxPause
txpause	Type: longlong TxPause

Command Modes

- /exec

show interface flowcontrol (if_manager)

show interface flowcontrol [**module** *module*] [**__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
flowcontrol	Show interface flowcontrol information *Not available in this release.*
module	Limit display to interfaces on module
module	Type: integer Enter module number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
send_admin	Send flowcontrol admin **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired
send_oper	Send flowcontrol oper **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired

recv_admin	Receive flowcontrol admin **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
recv_oper	Receive flowcontrol oper **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
rxpause	Type: longlong RxPause
txpause	Type: longlong TxPause

Command Modes

- /exec

show interface flowcontrol fex

show interface flowcontrol fex *fex_num* [**__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
flowcontrol	Show interface flowcontrol information
fex	Limit display to interfaces on a FEX
fex_num	Type: integer min: 100 max: 199 Enter FEX number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
send_admin	Send flowcontrol admin **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired
send_oper	Send flowcontrol oper **on value: 0x1** Send ON **off value: 0x0** Send OFF **desired value: 0x4** Send desired

recv_admin	Receive flowcontrol admin **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
recv_oper	Receive flowcontrol oper **on value: 0x2** Receive ON **off value: 0x0** Receive OFF **desired value: 0x8** Receive desired
rxpause	Type: longlong RxPause
txpause	Type: longlong TxPause

Command Modes

- /exec

show interface mac-address (if_manager)

show interface *ifid_macaddr* **mac-address** [**__readonly__ TABLE_interface** *interface address*]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_macaddr	Type: interface-mrange Enter interface type and number in module/slot format
mac-address	Show interface MAC address
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
address	Type: ethernet MAC Address

Command Modes

- /exec

show interface mac-address (if_manager)

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
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
address	Type: ethernet MAC Address
bia_address	Type: ethernet Burn-In MAC Address

Command Modes

- /exec

show interface priority-flow-control

show interface priority-flow-control [**module** *mod_num*] [**__readonly__** *interface admin oper*]

Syntax Description

show	Show running system information
interface	Show interface status and information
priority-flow-control	Show interface PFC information
module	Limit display to interfaces on module
mod_num	Type: integer min: 1 max: 18 Enter module number
__readonly__	
interface	Type: interface Interface index
admin	PFC admin **auto value: 1** Auto **off value: 2** off **on value: 3** on **dont-care value: 4** dont-care

oper	PFC oper **auto value: 1** Auto **off value: 2** off **on value: 3** on **dont-care value: 4** dont-care

Command Modes

- /exec

show interface private-vlan mapping

show interface [*if*] **private-vlan mapping** [**__readonly__** *output-filtered start interface-id secondary-vlan pvlan-type*]

Syntax Description

show	Show running system information
interface	Show interface status and information
private-vlan	Show interface private vlan information
mapping	Show interface private vlan information
__readonly__	Read Only
if	Type: interface Vlan Interface number
output-filtered	Type: uinteger the output is filtered for specified ifs
start	Type: uinteger Start
interface-id	Type: interface Interface
secondary-vlan	Type: uinteger Secondary Vlan
pvlan-type	**isolated value: 1** Isolated PVLAN **community value: 2** Community PVLAN **primary value: 3** Primary PVLAN **non-operational value: 4** Non-operational PVLAN

Command Modes

- /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__	Read Only
start	Type: uinteger Start
TABLE_interface_pruning1	Interface pruning information in table format
if_index1	Type: interface Trunk
rx_join	Type: string Vlans pruned for lack of request by neighbor
TABLE_interface_pruning2	Interface pruning information in table format
if_index2	Type: interface Trunk
cur_join	Type: string Vlan traffic requested of neighbor

Command Modes

- /exec

show interface snmp-ifindex

show interface snmp-ifindex [**__readonly__ TABLE_interface** *interface* [*ifindex-dec*] *snmp-ifindex*]

Syntax Description

show	Show running system information
interface	Show interface status and information
snmp-ifindex	Show snmp ifindex list
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
snmp-ifindex	Type: hex If Index in Hex
ifindex-dec	Type: uinteger If Index in Decimal

Command Modes

- /exec

show interface status (if_manager)

show interface *ifid_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
ifid_status	Type: interface-mrange Enter interface type and number in module/slot format
status	Show interface line status
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name

state	

Interface state

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

connected value: 2

None

faulty value: 3

Hardware failure

faulty value: 4

Diag failure

err-disabled value: 5

Error disabled

faulty value: 6

Port Software failure

notconnect value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

disabled value: 12

Administratively down

channelDown value: 13

Channel admin down

suspnd value: 14

Suspended

portSuspnd value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInPrgrss value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentDown value: 26

Parent interface down

parentDown value: 254

Parent interface down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

fcotAbsent value: 29

SFP not present

err-disabled value: 30

Error disabled due to SFP vendor not supported

err-disabled value: 31

Error disabled due to incompatible admin port mode

err-disabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

err-disabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

err-disabled value: 41

Error disabled due to incompatible admin port rxbbcredit

err-disabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

err-disabled value: 45

Error disabled due to first interface in this group is E

err-disabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChng value: 54

Admin config change

srcPrtRemv value: 55

Tunnel src port removed

srcMdOffline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invaldAttch value: 62

Invalid attachment Ficon not configured on peer

portBlcked value: 63

Port blocked due to Ficon

err-disabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invldFlgis value: 65

Suspended due to too many invalid flogis

invldBndng value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

err-disabled value: 78

Error Disabled due to portchannel misconfiguration

notConnect value: 82

Link failure Port unusable

notConnect value: 83

Link failure loss of signal

notConnect value: 84

Link failure loss of sync

notConnect value: 85

Link failure NOS received

notConnect value: 86

Link failure OLS received

notConnect value: 87

Link failure renegotiation failed

notConnect value: 88

Link failure Link Reset failed nonempty recv queue

notConnect value: 89

Link failure Excessive credit loss indications

notConnect value: 90

Link failure receive queue overflow

err-disabled value: 91

Error disabled due to excessive port interrupts

notConnect value: 92

Link failure Loop initialization failed nonempty recv queue

notConnect value: 93

Link failure Link reset failed queue not empty

notConnect value: 94

Link failure OPNy timeout while receive queue not empty

notConnect value: 95

Link failure OPNy returned while receive queue not empty

notConnect value: 96

Link failure Link reset failed queue not empty

notConnect value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

err-disabled value: 103

Error disabled due to ficon not enabled

noFiconPortNm value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

grcefulShtdwn value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trckdPortDwn value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmpEcho value: 166

UDLD empty echo

udldAggr value: 192

UDLD detected link failure in aggressive mode

connctrErr value: 125

Port connector type error

err-disabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

intlRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompTunCfg value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnrchble value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

inCompCfg value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitEThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNtAvl value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllcFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

htStdbyInBndl value: 148

Hot standby in bundle

err-disabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

dupTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

intFailErrDis value: 163

Internal handshake failure

bpdugrdErrDis value: 164

BPDUGuard triggered error disable

portDis value: 168

Port is disabled

secViolErrDis value: 165

error disabled due to security violation

mdNotCfg value: 169

tunnel interface is down because mode is not configured

srcNotCfg value: 170

tunnel interface is down because source is not configured

dstNotCfgd value: 171

tunnel interface is down because destination is not configured

unbleSrcIP value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unbleDstIP value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpVpcLnk value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpStPrtSteF value: 194

Interface is error disabled becasue of STP set port state failure

suspndByVpc value: 195

port channel is down because it was suspended by vpc

vpcCfgPrgrss value: 196

vpc configuration is in progress

vpcPeerLnkDwn value: 197

vpc peer-link is down

noRespFrmVpc value: 198

vpc down because failed to receive response from peer

vpcCmpFailed value: 303

vpc down because compatibility check failed

noTcamResrc value: 304

Not enough free entries in TCAM bank

tunnlSrcDwn value: 200

tunnel interface is down because tunnel source interface is down

conflctErrDis value: 203

Error disabled due to IP address conflict

fabrcIfDown value: 184

Pinned fabric port is down

invalidFbIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFail value: 217

Error disabled due to IP QoS policy application failure

routrmacFail value: 221

Router mac allocation failed

vlnNotExst value: 230

VLAN/BD does not exist

vlnDwn value: 232

VLAN/BD is down

vlnTypInvld value: 231

VLAN type is invalid

vdcModeUnsupported value: 250

Non-Routable VDC mode

dcbxpCmptFail value: 234

Ip Qos DCBXP compat check failed

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

xcvrSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

xcvrAuthFailed value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

suspendedMinLinks value: 251

Suspended due to minlinks

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

parentDown value: 254

Parent interface down

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

vlan	Type: string Vlan
duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
type	Type: string Type

Command Modes

- /exec

show interface status (if_manager)

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
ifeth_status	Type: interface-mrange Enter interface type and number in module/slot format
status	Show interface line status
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name

state	

Interface state

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

connected value: 2

None

faulty value: 3

Hardware failure

faulty value: 4

Diag failure

err-disabled value: 5

Error disabled

faulty value: 6

Port Software failure

notconnect value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

disabled value: 12

Administratively down

channelDown value: 13

Channel admin down

suspnd value: 14

Suspended

portSuspnd value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInPrgrss value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentDown value: 26

Parent interface down

parentDown value: 254

Parent interface down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

fcotAbsent value: 29

SFP not present

err-disabled value: 30

Error disabled due to SFP vendor not supported

err-disabled value: 31

Error disabled due to incompatible admin port mode

err-disabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

err-disabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

err-disabled value: 41

Error disabled due to incompatible admin port rxbbcredit

err-disabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

err-disabled value: 45

Error disabled due to first interface in this group is E

err-disabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChng value: 54

Admin config change

srcPrtRemv value: 55

Tunnel src port removed

srcMdOffline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invaldAttch value: 62

Invalid attachment Ficon not configured on peer

portBlcked value: 63

Port blocked due to Ficon

err-disabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invldFlgis value: 65

Suspended due to too many invalid flogis

invldBndng value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

err-disabled value: 78

Error Disabled due to portchannel misconfiguration

notConnect value: 82

Link failure Port unusable

notConnect value: 83

Link failure loss of signal

notConnect value: 84

Link failure loss of sync

notConnect value: 85

Link failure NOS received

notConnect value: 86

Link failure OLS received

notConnect value: 87

Link failure renegotiation failed

notConnect value: 88

Link failure Link Reset failed nonempty recv queue

notConnect value: 89

Link failure Excessive credit loss indications

notConnect value: 90

Link failure receive queue overflow

err-disabled value: 91

Error disabled due to excessive port interrupts

notConnect value: 92

Link failure Loop initialization failed nonempty recv queue

notConnect value: 93

Link failure Link reset failed queue not empty

notConnect value: 94

Link failure OPNy timeout while receive queue not empty

notConnect value: 95

Link failure OPNy returned while receive queue not empty

notConnect value: 96

Link failure Link reset failed queue not empty

notConnect value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

err-disabled value: 103

Error disabled due to ficon not enabled

noFiconPortNm value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

grcefulShtdwn value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trckdPortDwn value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmpEcho value: 166

UDLD empty echo

udldAggr value: 192

UDLD detected link failure in aggressive mode

connctrErr value: 125

Port connector type error

err-disabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

intlRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompTunCfg value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnrchble value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

inCompCfg value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitEThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNtAvl value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllcFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

htStdbyInBndl value: 148

Hot standby in bundle

err-disabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

dupTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

intFailErrDis value: 163

Internal handshake failure

bpdugrdErrDis value: 164

BPDUGuard triggered error disable

portDis value: 168

Port is disabled

secViolErrDis value: 165

error disabled due to security violation

mdNotCfg value: 169

tunnel interface is down because mode is not configured

srcNotCfg value: 170

tunnel interface is down because source is not configured

dstNotCfgd value: 171

tunnel interface is down because destination is not configured

unbleSrcIP value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unbleDstIP value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpVpcLnk value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpStPrtSteF value: 194

Interface is error disabled becasue of STP set port state failure

suspndByVpc value: 195

port channel is down because it was suspended by vpc

vpcCfgPrgrss value: 196

vpc configuration is in progress

vpcPeerLnkDwn value: 197

vpc peer-link is down

noRespFrmVpc value: 198

vpc down because failed to receive response from peer

vpcCmpFailed value: 303

vpc down because compatibility check failed

noTcamResrc value: 304

Not enough free entries in TCAM bank

tunnlSrcDwn value: 200

tunnel interface is down because tunnel source interface is down

conflctErrDis value: 203

Error disabled due to IP address conflict

fabrcIfDown value: 184

Pinned fabric port is down

invalidFbIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFail value: 217

Error disabled due to IP QoS policy application failure

routrmacFail value: 221

Router mac allocation failed

vlnNotExst value: 230

VLAN/BD does not exist

vlnDwn value: 232

VLAN/BD is down

vlnTypInvld value: 231

VLAN type is invalid

vdcModeUnsupported value: 250

Non-Routable VDC mode

dcbxpCmptFail value: 234

Ip Qos DCBXP compat check failed

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

xcvrSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

xcvrAuthFailed value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

suspendedMinLinks value: 251

Suspended due to minlinks

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

parentDown value: 254

Parent interface down

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

vlan	Type: string Vlan
duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
type	Type: string Type

Command Modes

- /exec

show interface status (if_manager)

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
iftun_status	Type: interface-mrange Enter tunnel interface number
status	Show interface line status
err-disabled	Show interface error disabled state
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name

state

Interface state

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

connected value: 2

None

faulty value: 3

Hardware failure

faulty value: 4

Diag failure

err-disabled value: 5

Error disabled

faulty value: 6

Port Software failure

notconnect value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

disabled value: 12

Administratively down

channelDown value: 13

Channel admin down

suspnd value: 14

Suspended

portSuspnd value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInPrgrss value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentDown value: 26

Parent interface down

parentDown value: 254

Parent interface down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

fcotAbsent value: 29

SFP not present

err-disabled value: 30

Error disabled due to SFP vendor not supported

err-disabled value: 31

Error disabled due to incompatible admin port mode

err-disabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

err-disabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

err-disabled value: 41

Error disabled due to incompatible admin port rxbbcredit

err-disabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

err-disabled value: 45

Error disabled due to first interface in this group is E

err-disabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChng value: 54

Admin config change

srcPrtRemv value: 55

Tunnel src port removed

srcMdOffline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invaldAttch value: 62

Invalid attachment Ficon not configured on peer

portBlcked value: 63

Port blocked due to Ficon

err-disabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invldFlgis value: 65

Suspended due to too many invalid flogis

invldBndng value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

err-disabled value: 78

Error Disabled due to portchannel misconfiguration

notConnect value: 82

Link failure Port unusable

notConnect value: 83

Link failure loss of signal

notConnect value: 84

Link failure loss of sync

notConnect value: 85

Link failure NOS received

notConnect value: 86

Link failure OLS received

notConnect value: 87

Link failure renegotiation failed

notConnect value: 88

Link failure Link Reset failed nonempty recv queue

notConnect value: 89

Link failure Excessive credit loss indications

notConnect value: 90

Link failure receive queue overflow

err-disabled value: 91

Error disabled due to excessive port interrupts

notConnect value: 92

Link failure Loop initialization failed nonempty recv queue

notConnect value: 93

Link failure Link reset failed queue not empty

notConnect value: 94

Link failure OPNy timeout while receive queue not empty

notConnect value: 95

Link failure OPNy returned while receive queue not empty

notConnect value: 96

Link failure Link reset failed queue not empty

notConnect value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

err-disabled value: 103

Error disabled due to ficon not enabled

noFiconPortNm value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

grcefulShtdwn value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trckdPortDwn value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmpEcho value: 166

UDLD empty echo

udldAggr value: 192

UDLD detected link failure in aggressive mode

connctrErr value: 125

Port connector type error

err-disabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

intlRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompTunCfg value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnrchble value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

inCompCfg value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitEThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNtAvl value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllcFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

htStdbyInBndl value: 148

Hot standby in bundle

err-disabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

dupTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

intFailErrDis value: 163

Internal handshake failure

bpdugrdErrDis value: 164

BPDUGuard triggered error disable

portDis value: 168

Port is disabled

secViolErrDis value: 165

error disabled due to security violation

mdNotCfg value: 169

tunnel interface is down because mode is not configured

srcNotCfg value: 170

tunnel interface is down because source is not configured

dstNotCfgd value: 171

tunnel interface is down because destination is not configured

unbleSrcIP value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unbleDstIP value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpVpcLnk value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpStPrtSteF value: 194

Interface is error disabled becasue of STP set port state failure

suspndByVpc value: 195

port channel is down because it was suspended by vpc

vpcCfgPrgrss value: 196

vpc configuration is in progress

vpcPeerLnkDwn value: 197

vpc peer-link is down

noRespFrmVpc value: 198

vpc down because failed to receive response from peer

vpcCmpFailed value: 303

vpc down because compatibility check failed

noTcamResrc value: 304

Not enough free entries in TCAM bank

tunnlSrcDwn value: 200

tunnel interface is down because tunnel source interface is down

conflctErrDis value: 203

Error disabled due to IP address conflict

fabrcIfDown value: 184

Pinned fabric port is down

invalidFbIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFail value: 217

Error disabled due to IP QoS policy application failure

routrmacFail value: 221

Router mac allocation failed

vlnNotExst value: 230

VLAN/BD does not exist

vlnDwn value: 232

VLAN/BD is down

vlnTypInvld value: 231

VLAN type is invalid

vdcModeUnsupported value: 250

Non-Routable VDC mode

dcbxpCmptFail value: 234

Ip Qos DCBXP compat check failed

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

xcvrSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

xcvrAuthFailed value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

suspendedMinLinks value: 251

Suspended due to minlinks

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

parentDown value: 254

Parent interface down

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

Command Modes

- /exec

show interface status (if_manager)

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
ifrange	Type: interface-mrange Enter tunnel interface number
status	Show interface line status
err-disabled	Show interface error disabled state
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name

state	

Interface state

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

connected value: 2

None

faulty value: 3

Hardware failure

faulty value: 4

Diag failure

err-disabled value: 5

Error disabled

faulty value: 6

Port Software failure

notconnect value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

disabled value: 12

Administratively down

channelDown value: 13

Channel admin down

suspnd value: 14

Suspended

portSuspnd value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInPrgrss value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentDown value: 26

Parent interface down

parentDown value: 254

Parent interface down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

fcotAbsent value: 29

SFP not present

err-disabled value: 30

Error disabled due to SFP vendor not supported

err-disabled value: 31

Error disabled due to incompatible admin port mode

err-disabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

err-disabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

err-disabled value: 41

Error disabled due to incompatible admin port rxbbcredit

err-disabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

err-disabled value: 45

Error disabled due to first interface in this group is E

err-disabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChng value: 54

Admin config change

srcPrtRemv value: 55

Tunnel src port removed

srcMdOffline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invaldAttch value: 62

Invalid attachment Ficon not configured on peer

portBlcked value: 63

Port blocked due to Ficon

err-disabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invldFlgis value: 65

Suspended due to too many invalid flogis

invldBndng value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

err-disabled value: 78

Error Disabled due to portchannel misconfiguration

notConnect value: 82

Link failure Port unusable

notConnect value: 83

Link failure loss of signal

notConnect value: 84

Link failure loss of sync

notConnect value: 85

Link failure NOS received

notConnect value: 86

Link failure OLS received

notConnect value: 87

Link failure renegotiation failed

notConnect value: 88

Link failure Link Reset failed nonempty recv queue

notConnect value: 89

Link failure Excessive credit loss indications

notConnect value: 90

Link failure receive queue overflow

err-disabled value: 91

Error disabled due to excessive port interrupts

notConnect value: 92

Link failure Loop initialization failed nonempty recv queue

notConnect value: 93

Link failure Link reset failed queue not empty

notConnect value: 94

Link failure OPNy timeout while receive queue not empty

notConnect value: 95

Link failure OPNy returned while receive queue not empty

notConnect value: 96

Link failure Link reset failed queue not empty

notConnect value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

err-disabled value: 103

Error disabled due to ficon not enabled

noFiconPortNm value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

grcefulShtdwn value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trckdPortDwn value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmpEcho value: 166

UDLD empty echo

udldAggr value: 192

UDLD detected link failure in aggressive mode

connctrErr value: 125

Port connector type error

err-disabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

intlRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompTunCfg value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnrchble value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

inCompCfg value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitEThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNtAvl value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllcFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

htStdbyInBndl value: 148

Hot standby in bundle

err-disabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

dupTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

intFailErrDis value: 163

Internal handshake failure

bpdugrdErrDis value: 164

BPDUGuard triggered error disable

portDis value: 168

Port is disabled

secViolErrDis value: 165

error disabled due to security violation

mdNotCfg value: 169

tunnel interface is down because mode is not configured

srcNotCfg value: 170

tunnel interface is down because source is not configured

dstNotCfgd value: 171

tunnel interface is down because destination is not configured

unbleSrcIP value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unbleDstIP value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpVpcLnk value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpStPrtSteF value: 194

Interface is error disabled becasue of STP set port state failure

suspndByVpc value: 195

port channel is down because it was suspended by vpc

vpcCfgPrgrss value: 196

vpc configuration is in progress

vpcPeerLnkDwn value: 197

vpc peer-link is down

noRespFrmVpc value: 198

vpc down because failed to receive response from peer

vpcCmpFailed value: 303

vpc down because compatibility check failed

noTcamResrc value: 304

Not enough free entries in TCAM bank

tunnlSrcDwn value: 200

tunnel interface is down because tunnel source interface is down

conflctErrDis value: 203

Error disabled due to IP address conflict

fabrcIfDown value: 184

Pinned fabric port is down

invalidFbIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFail value: 217

Error disabled due to IP QoS policy application failure

routrmacFail value: 221

Router mac allocation failed

vlnNotExst value: 230

VLAN/BD does not exist

vlnDwn value: 232

VLAN/BD is down

vlnTypInvld value: 231

VLAN type is invalid

vdcModeUnsupported value: 250

Non-Routable VDC mode

dcbxpCmptFail value: 234

Ip Qos DCBXP compat check failed

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

xcvrSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

xcvrAuthFailed value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

suspendedMinLinks value: 251

Suspended due to minlinks

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

parentDown value: 254

Parent interface down

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc	

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

Command Modes

- /exec

show interface status (if_manager)

show interface status [**down**| **inactive**| **module** *module*| **up**] [**__readonly__ TABLE_interface** *interface* [*name*] *state vlan duplex speed* [*type*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
down	Show interface down state
inactive	Show interface inactive state
module	Limit display to interfaces on module
module	Type: integer Enter module number
up	Show interface up state
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name

state	

Interface state

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

connected value: 2

None

faulty value: 3

Hardware failure

faulty value: 4

Diag failure

err-disabled value: 5

Error disabled

faulty value: 6

Port Software failure

notconnect value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

disabled value: 12

Administratively down

channelDown value: 13

Channel admin down

suspnd value: 14

Suspended

portSuspnd value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInPrgrss value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentDown value: 26

Parent interface down

parentDown value: 254

Parent interface down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

fcotAbsent value: 29

SFP not present

err-disabled value: 30

Error disabled due to SFP vendor not supported

err-disabled value: 31

Error disabled due to incompatible admin port mode

err-disabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

err-disabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

err-disabled value: 41

Error disabled due to incompatible admin port rxbbcredit

err-disabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

err-disabled value: 45

Error disabled due to first interface in this group is E

err-disabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChng value: 54

Admin config change

srcPrtRemv value: 55

Tunnel src port removed

srcMdOffline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invaldAttch value: 62

Invalid attachment Ficon not configured on peer

portBlcked value: 63

Port blocked due to Ficon

err-disabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invldFlgis value: 65

Suspended due to too many invalid flogis

invldBndng value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

err-disabled value: 78

Error Disabled due to portchannel misconfiguration

notConnect value: 82

Link failure Port unusable

notConnect value: 83

Link failure loss of signal

notConnect value: 84

Link failure loss of sync

notConnect value: 85

Link failure NOS received

notConnect value: 86

Link failure OLS received

notConnect value: 87

Link failure renegotiation failed

notConnect value: 88

Link failure Link Reset failed nonempty recv queue

notConnect value: 89

Link failure Excessive credit loss indications

notConnect value: 90

Link failure receive queue overflow

err-disabled value: 91

Error disabled due to excessive port interrupts

notConnect value: 92

Link failure Loop initialization failed nonempty recv queue

notConnect value: 93

Link failure Link reset failed queue not empty

notConnect value: 94

Link failure OPNy timeout while receive queue not empty

notConnect value: 95

Link failure OPNy returned while receive queue not empty

notConnect value: 96

Link failure Link reset failed queue not empty

notConnect value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

err-disabled value: 103

Error disabled due to ficon not enabled

noFiconPortNm value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

grcefulShtdwn value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trckdPortDwn value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmpEcho value: 166

UDLD empty echo

udldAggr value: 192

UDLD detected link failure in aggressive mode

connctrErr value: 125

Port connector type error

err-disabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

intlRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompTunCfg value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnrchble value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

inCompCfg value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitEThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNtAvl value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllcFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

htStdbyInBndl value: 148

Hot standby in bundle

err-disabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

dupTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

intFailErrDis value: 163

Internal handshake failure

bpdugrdErrDis value: 164

BPDUGuard triggered error disable

portDis value: 168

Port is disabled

secViolErrDis value: 165

error disabled due to security violation

mdNotCfg value: 169

tunnel interface is down because mode is not configured

srcNotCfg value: 170

tunnel interface is down because source is not configured

dstNotCfgd value: 171

tunnel interface is down because destination is not configured

unbleSrcIP value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unbleDstIP value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpVpcLnk value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpStPrtSteF value: 194

Interface is error disabled becasue of STP set port state failure

suspndByVpc value: 195

port channel is down because it was suspended by vpc

vpcCfgPrgrss value: 196

vpc configuration is in progress

vpcPeerLnkDwn value: 197

vpc peer-link is down

noRespFrmVpc value: 198

vpc down because failed to receive response from peer

vpcCmpFailed value: 303

vpc down because compatibility check failed

noTcamResrc value: 304

Not enough free entries in TCAM bank

tunnlSrcDwn value: 200

tunnel interface is down because tunnel source interface is down

conflctErrDis value: 203

Error disabled due to IP address conflict

fabrcIfDown value: 184

Pinned fabric port is down

invalidFbIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFail value: 217

Error disabled due to IP QoS policy application failure

routrmacFail value: 221

Router mac allocation failed

vlnNotExst value: 230

VLAN/BD does not exist

vlnDwn value: 232

VLAN/BD is down

vlnTypInvld value: 231

VLAN type is invalid

vdcModeUnsupported value: 250

Non-Routable VDC mode

dcbxpCmptFail value: 234

Ip Qos DCBXP compat check failed

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

xcvrSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

xcvrAuthFailed value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

suspendedMinLinks value: 251

Suspended due to minlinks

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

parentDown value: 254

Parent interface down

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

vlan	Type: string Vlan
duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
type	Type: string Type

Command Modes

- /exec

show interface status (svi)

show interface *ifid* **status** [**__readonly__** *start if_index admin-state line-proto*]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid	Type: interface-mrange VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
status	Interface status
__readonly__	Read Only
start	Type: uinteger Start
if_index	Type: interface Interface
admin-state	**up value: 0** **down value: 1** **administratively down value: 2** **type not supported value: 3**
line-proto	**up value: 0** **down value: 1** **shut value: 4** **out of service value: 5** **unknown value: 6**

Command Modes

- /exec

show interface status err-disabled (if_manager)

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
ifeth_errdis	Type: interface-mrange Enter interface type and number in module/slot format
err-disabled	Show interface error disabled state
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name

state

Interface state

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

connected value: 2

None

faulty value: 3

Hardware failure

faulty value: 4

Diag failure

err-disabled value: 5

Error disabled

faulty value: 6

Port Software failure

notconnect value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

disabled value: 12

Administratively down

channelDown value: 13

Channel admin down

suspnd value: 14

Suspended

portSuspnd value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInPrgrss value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentDown value: 26

Parent interface down

parentDown value: 254

Parent interface down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

fcotAbsent value: 29

SFP not present

err-disabled value: 30

Error disabled due to SFP vendor not supported

err-disabled value: 31

Error disabled due to incompatible admin port mode

err-disabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

err-disabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

err-disabled value: 41

Error disabled due to incompatible admin port rxbbcredit

err-disabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

err-disabled value: 45

Error disabled due to first interface in this group is E

err-disabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChng value: 54

Admin config change

srcPrtRemv value: 55

Tunnel src port removed

srcMdOffline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invaldAttch value: 62

Invalid attachment Ficon not configured on peer

portBlcked value: 63

Port blocked due to Ficon

err-disabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invldFlgis value: 65

Suspended due to too many invalid flogis

invldBndng value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

err-disabled value: 78

Error Disabled due to portchannel misconfiguration

notConnect value: 82

Link failure Port unusable

notConnect value: 83

Link failure loss of signal

notConnect value: 84

Link failure loss of sync

notConnect value: 85

Link failure NOS received

notConnect value: 86

Link failure OLS received

notConnect value: 87

Link failure renegotiation failed

notConnect value: 88

Link failure Link Reset failed nonempty recv queue

notConnect value: 89

Link failure Excessive credit loss indications

notConnect value: 90

Link failure receive queue overflow

err-disabled value: 91

Error disabled due to excessive port interrupts

notConnect value: 92

Link failure Loop initialization failed nonempty recv queue

notConnect value: 93

Link failure Link reset failed queue not empty

notConnect value: 94

Link failure OPNy timeout while receive queue not empty

notConnect value: 95

Link failure OPNy returned while receive queue not empty

notConnect value: 96

Link failure Link reset failed queue not empty

notConnect value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

err-disabled value: 103

Error disabled due to ficon not enabled

noFiconPortNm value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

grcefulShtdwn value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trckdPortDwn value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmpEcho value: 166

UDLD empty echo

udldAggr value: 192

UDLD detected link failure in aggressive mode

connctrErr value: 125

Port connector type error

err-disabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

intlRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompTunCfg value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnrchble value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

inCompCfg value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitEThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNtAvl value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllcFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

htStdbyInBndl value: 148

Hot standby in bundle

err-disabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

dupTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

intFailErrDis value: 163

Internal handshake failure

bpdugrdErrDis value: 164

BPDUGuard triggered error disable

portDis value: 168

Port is disabled

secViolErrDis value: 165

error disabled due to security violation

mdNotCfg value: 169

tunnel interface is down because mode is not configured

srcNotCfg value: 170

tunnel interface is down because source is not configured

dstNotCfgd value: 171

tunnel interface is down because destination is not configured

unbleSrcIP value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unbleDstIP value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpVpcLnk value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpStPrtSteF value: 194

Interface is error disabled becasue of STP set port state failure

suspndByVpc value: 195

port channel is down because it was suspended by vpc

vpcCfgPrgrss value: 196

vpc configuration is in progress

vpcPeerLnkDwn value: 197

vpc peer-link is down

noRespFrmVpc value: 198

vpc down because failed to receive response from peer

vpcCmpFailed value: 303

vpc down because compatibility check failed

noTcamResrc value: 304

Not enough free entries in TCAM bank

tunnlSrcDwn value: 200

tunnel interface is down because tunnel source interface is down

conflctErrDis value: 203

Error disabled due to IP address conflict

fabrcIfDown value: 184

Pinned fabric port is down

invalidFbIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFail value: 217

Error disabled due to IP QoS policy application failure

routrmacFail value: 221

Router mac allocation failed

vlnNotExst value: 230

VLAN/BD does not exist

vlnDwn value: 232

VLAN/BD is down

vlnTypInvld value: 231

VLAN type is invalid

vdcModeUnsupported value: 250

Non-Routable VDC mode

dcbxpCmptFail value: 234

Ip Qos DCBXP compat check failed

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

xcvrSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

xcvrAuthFailed value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

suspendedMinLinks value: 251

Suspended due to minlinks

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

parentDown value: 254

Parent interface down

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

Command Modes

- /exec

show interface status err-disabled (if_manager)

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
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name

state	

Interface state

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

connected value: 2

None

faulty value: 3

Hardware failure

faulty value: 4

Diag failure

err-disabled value: 5

Error disabled

faulty value: 6

Port Software failure

notconnect value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

disabled value: 12

Administratively down

channelDown value: 13

Channel admin down

suspnd value: 14

Suspended

portSuspnd value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInPrgrss value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentDown value: 26

Parent interface down

parentDown value: 254

Parent interface down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

fcotAbsent value: 29

SFP not present

err-disabled value: 30

Error disabled due to SFP vendor not supported

err-disabled value: 31

Error disabled due to incompatible admin port mode

err-disabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

err-disabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

err-disabled value: 41

Error disabled due to incompatible admin port rxbbcredit

err-disabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

err-disabled value: 45

Error disabled due to first interface in this group is E

err-disabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChng value: 54

Admin config change

srcPrtRemv value: 55

Tunnel src port removed

srcMdOffline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invaldAttch value: 62

Invalid attachment Ficon not configured on peer

portBlcked value: 63

Port blocked due to Ficon

err-disabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invldFlgis value: 65

Suspended due to too many invalid flogis

invldBndng value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

err-disabled value: 78

Error Disabled due to portchannel misconfiguration

notConnect value: 82

Link failure Port unusable

notConnect value: 83

Link failure loss of signal

notConnect value: 84

Link failure loss of sync

notConnect value: 85

Link failure NOS received

notConnect value: 86

Link failure OLS received

notConnect value: 87

Link failure renegotiation failed

notConnect value: 88

Link failure Link Reset failed nonempty recv queue

notConnect value: 89

Link failure Excessive credit loss indications

notConnect value: 90

Link failure receive queue overflow

err-disabled value: 91

Error disabled due to excessive port interrupts

notConnect value: 92

Link failure Loop initialization failed nonempty recv queue

notConnect value: 93

Link failure Link reset failed queue not empty

notConnect value: 94

Link failure OPNy timeout while receive queue not empty

notConnect value: 95

Link failure OPNy returned while receive queue not empty

notConnect value: 96

Link failure Link reset failed queue not empty

notConnect value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

err-disabled value: 103

Error disabled due to ficon not enabled

noFiconPortNm value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

grcefulShtdwn value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trckdPortDwn value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmpEcho value: 166

UDLD empty echo

udldAggr value: 192

UDLD detected link failure in aggressive mode

connctrErr value: 125

Port connector type error

err-disabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

intlRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompTunCfg value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnrchble value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

inCompCfg value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitEThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNtAvl value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllcFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

htStdbyInBndl value: 148

Hot standby in bundle

err-disabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

dupTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

intFailErrDis value: 163

Internal handshake failure

bpdugrdErrDis value: 164

BPDUGuard triggered error disable

portDis value: 168

Port is disabled

secViolErrDis value: 165

error disabled due to security violation

mdNotCfg value: 169

tunnel interface is down because mode is not configured

srcNotCfg value: 170

tunnel interface is down because source is not configured

dstNotCfgd value: 171

tunnel interface is down because destination is not configured

unbleSrcIP value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unbleDstIP value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpVpcLnk value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpStPrtSteF value: 194

Interface is error disabled becasue of STP set port state failure

suspndByVpc value: 195

port channel is down because it was suspended by vpc

vpcCfgPrgrss value: 196

vpc configuration is in progress

vpcPeerLnkDwn value: 197

vpc peer-link is down

noRespFrmVpc value: 198

vpc down because failed to receive response from peer

vpcCmpFailed value: 303

vpc down because compatibility check failed

noTcamResrc value: 304

Not enough free entries in TCAM bank

tunnlSrcDwn value: 200

tunnel interface is down because tunnel source interface is down

conflctErrDis value: 203

Error disabled due to IP address conflict

fabrcIfDown value: 184

Pinned fabric port is down

invalidFbIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFail value: 217

Error disabled due to IP QoS policy application failure

routrmacFail value: 221

Router mac allocation failed

vlnNotExst value: 230

VLAN/BD does not exist

vlnDwn value: 232

VLAN/BD is down

vlnTypInvld value: 231

VLAN type is invalid

vdcModeUnsupported value: 250

Non-Routable VDC mode

dcbxpCmptFail value: 234

Ip Qos DCBXP compat check failed

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

xcvrSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

xcvrAuthFailed value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

suspendedMinLinks value: 251

Suspended due to minlinks

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

parentDown value: 254

Parent interface down

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn	

Interface state reason

sfpInit value: 238

Transceiver Initializing

down value: 1

Other

none value: 2

None

hwFailure value: 3

Hardware failure

diagFailure value: 4

Diag failure

errDisabled value: 5

Error disabled

swFailure value: 6

Port Software failure

notConnected value: 7

Link failure or not connected

offline value: 8

offline

nonPcpt value: 9

Non participating

init value: 10

Initializing

inactive value: 11

Inactive

admin down value: 12

Administratively down

channelDown value: 13

Channel admin down

suspended value: 14

Suspended

suspended value: 199

Suspended

channelUpdate value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolated value: 17

Isolation due to ELP failure

isolated value: 18

Isolation due to ESC failure

isolated value: 19

Isolation due to domain overlap

isolated value: 20

Isolation due to domain id assignment failure

isolated value: 21

Isolation due to domain other side eport isolated

isolated value: 22

Isolation due to invalid fabric reconfiguration

isolated value: 23

Isolation due to domain manager disabled

isolated value: 24

Isolation due to zone merge failure

isolated value: 25

Isolation due to vsan not configured on peer

parentAdminDown value: 26

Parent Interface Admin Down

srcUnbound value: 27

Tunnel port src interface unbound

ifRemoved value: 28

Interface is removed

sfpAbsent value: 29

SFP not present

errDisabled value: 30

Error disabled due to SFP vendor not supported

errDisabled value: 31

Error disabled due to incompatible admin port mode

errDisabled value: 32

Error disabled due to incompatible admin port speed

suspended value: 33

Suspended due to incompatible mode

suspended value: 34

Suspended due to incompatible speed

suspended value: 35

Suspended due to incompatible remote switch WWN

isolated value: 36

Isolation due to domain manager other side not responding

errorDisabled value: 37

Error Disabled due to EPP Failure

isolated value: 38

Isolation due to port vsan mismatch

isolated value: 39

Isolation due to port loopback to same switch

modUpgrade value: 40

Linecard upgrade in progress

errDisabled value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabled value: 42

Error disabled due to incompatible admin port rxbufsize

noOperMembers value: 43

No operational members

isolated value: 44

Isolation due to remote zone server not responding

errDisabled value: 45

Error disabled due to first interface in this group is E

errDisabled value: 46

Error disabled due to other interfaces in this group are not shut

peerDown value: 47

TCP connection closed by peer

peerDown value: 48

TCP connection rest by peer

tcpDown value: 49

TCP max retransmission reached

tcpDown value: 50

TCP keep alive timer expired

tcpDown value: 51

TCP persist timer expired

parentEthDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

srcPortRemoved value: 55

Tunnel src port removed

srcModNotOnline value: 56

Tunnel source module not online

invalidCfg value: 57

Possible port channel misconfiguration

isolated value: 58

Isolation due to port security failure

isolated value: 59

Isolation due to fabric bind failure

isolated value: 60

Isolation due to no common vsans with peer on trunk

ficonDown value: 61

Ficon vsan down

invalidAttach value: 62

Invalid attachment Ficon not configured on peer

portBlocked value: 63

Port blocked due to Ficon

errDisabled value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

invalidFlogis value: 65

Suspended due to too many invalid flogis

invalidBinding value: 66

Suspended due to port security

isolated value: 67

Isolation due to ELP failure revision mismatch

isolated value: 68

Isolation due to ELP failure class F param error

isolated value: 69

Isolation due to ELP failure class N param error

isolated value: 70

Isolation due to ELP failure invalid flow control code

isolated value: 71

Isolation due to ELP failure invalid flow control param

isolated value: 72

Isolation due to ELP failure invalid port name

isolated value: 73

Isolation due to ELP failure invalid switch name

isolated value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolated value: 75

Isolation due to ELP failure loopback detected

isolated value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolated value: 77

Isolation due to ELP failure invalid payload size

errDisabled value: 78

Error Disabled due to portchannel misconfiguration

notConnected value: 82

Link failure Port unusable

notConnected value: 83

Link failure loss of signal

notConnected value: 84

Link failure loss of sync

notConnected value: 85

Link failure NOS received

notConnected value: 86

Link failure OLS received

notConnected value: 87

Link failure renegotiation failed

notConnected value: 88

Link failure Link Reset failed nonempty recv queue

notConnected value: 89

Link failure Excessive credit loss indications

notConnected value: 90

Link failure receive queue overflow

errDisabled value: 91

Error disabled due to excessive port interrupts

notConnected value: 92

Link failure Loop initialization failed nonempty recv queue

notConnected value: 93

Link failure Link reset failed queue not empty

notConnected value: 94

Link failure OPNy timeout while receive queue not empty

notConnected value: 95

Link failure OPNy returned while receive queue not empty

notConnected value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolated value: 98

Isolation due to FCSP failure

sfpErr value: 99

SFP checksum error

suspended value: 100

Suspended due to external Loopback diagnostics failure

isolated value: 101

Invalid fabric binding exchange

isolated value: 102

Isolation due to TOV Mismatch

errDisabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

some value: 108

Not all VSANs UP on the trunk

isolated value: 109

Isolation due to fabric binding peer switch WWN not found

isolated value: 110

Isolation due to fabric binding peer domain mismatch

isolated value: 111

Isolation due to fabric binding database mismatch

isolated value: 112

Isolation due to fabric binding no response from peer

suspended value: 113

Suspended due to dynamic vsan suspension

suspended value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspended value: 116

Suspended as extended credit mode not allowed for loop ports

isolated value: 117

Isolation due to portchannel misconfiguration

suspended value: 118

Peer device does not support portchannels

isolated value: 119

Isolation during port bringup

isolated value: 120

Isolation due to domain not allowed

isolated value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

authFailed value: 123

Authentication failed

udldUnidir value: 144

Unidirectional UDLD detected

udldLoop value: 145

UDLD Tx Rx loop

udldMismatch value: 146

UDLD neighbor mismatch

udldEmptyEcho value: 166

UDLD empty echo

udldAggressive value: 192

UDLD detected link failure in aggressive mode

connectorErr value: 125

Port connector type error

errDisabled value: 126

Error disabled due to reinit limit reached

dupPort value: 127

Duplicate port num in VSAN

internalRcf value: 128

Internal RCF in progress

dupWwn value: 129

Duplicate WWN

invalid value: 130

Invalid other princ epp req received

isolated value: 131

Isolated due to unknown reason

inCompleteConfig value: 150

Incomplete tunnel configuration

HWProgFailed value: 151

Hardware programming failed

destUnreachable value: 152

No route to tunnel destination address

modRemoved value: 255

Module removed

mtuFailure value: 153

MTU allocation failed

down value: 149

All parameters have not been configured

sfpAbsent value: 155

SFP is not inserted

xcvrAbsent value: 239

Transceiver is not inserted

sfpInvalid value: 154

SFP is not Cisco certified

xcvrInvalid value: 240

Transceiver is not Cisco certified

bitERateThrshExc value: 79

Bit error rate threshold exceeded

linkFail value: 80

Link failure link reset

linkFail value: 81

Link failure port initialization failed

elpFailAllZPeer value: 132

ELP failure, all zero peer WWN received

isolated value: 133

Isolation due to preferred path

isolated value: 134

FC redirect isolation

portLicNotAvail value: 135

Port activity license not available

isolated value: 136

SDM isolation

fcidAllocFail value: 137

FCID allocation failed

extDisabled value: 138

Externally disabled

authPending value: 147

Authorization pending

hotStandbyInBndl value: 148

Hot standby in bundle

errDisabled value: 157

Channel error-disabled

capAbsent value: 156

Port capabilities not known

VRFMismatch value: 158

Mismatch in source and transport VRF

VRFFWRef value: 159

Forward referencing transport VRF

duplicateTunnel value: 160

two tunnel interface with same configuration is not allowed

linkFlapErr value: 143

Too many link flaps in a short interval

primVlanDn value: 161

Primary vlan is down.

vrfUnusable value: 162

VRF Unusable

internalFailureErrDisable value: 163

Internal handshake failure

bpduguardErrDisable value: 164

BPDUGuard triggered error disable

portDisabled value: 168

Port is disabled

securityViolationErrDisable value: 165

error disabled due to security violation

modeNotConfigured value: 169

tunnel interface is down because mode is not configured

sourceNotConfigured value: 170

tunnel interface is down because source is not configured

destinationNotConfigured value: 171

tunnel interface is down because destination is not configured

unable2ResolveSourceIPAddress value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable2ResolveDestIPAddress value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRFIsDown value: 174

tunnel interface is down because vrf configured to tunnel interface is down

StpInconsistentVpcPeerLink value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

StpSetPortStateFail value: 194

Interface is error disabled becasue of STP set port state failure

suspendedByVpc value: 195

port channel is down because it was suspended by vpc

vpcConfigInProgress value: 196

vpc configuration is in progress

vpcPeerLinkDown value: 197

vpc peer-link is down

noResponseFromVpcPeer value: 198

vpc down because failed to receive response from peer

vpcCompatFailed value: 303

vpc down because compatibility check failed

notEnoughTcamResrc value: 304

Not enough free entries in TCAM bank

tunnelSrcDown value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDis value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IPQosFailure value: 217

Error disabled due to IP QoS policy application failure

routermacFailure value: 221

Router mac allocation failed

vlanDoesNotExist value: 230

VLAN/BD does not exist

vlanIsDown value: 232

VLAN/BD is down

vlanTypeInvalid value: 231

VLAN type is invalid

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX Recieved 100 PDUs without ACK

ipQosDcbxpCompatFailure value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

parentDown value: 254

parent interface down

inactive value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

transceiverSpeedMismatch value: 237

The speed supported by the transceiver does not match the speed configured on the port

transceiverAuthFailure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Failed to bring up vPC+ peer link Fabric Path switch ID not configured

vPC+PeerLnkNotFabricPath value: 257

Failed to bring up vPC+ peer link port is not configured as a Fabric Path port

xcvrEthComplianceErr value: 262

The transceiver has failed ethernet compliance

speedGrpChk value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

state_rsn_desc

Interface state reason detailed

dcxMultipleMSAPs value: 222

DCX Multiple MSAP IDs recieved for the port

dcxNoACKin100PDUs value: 223

DCX received 100 PDUs without ACK

sfpInit value: 238

Transceiver Initializing

other value: 1

Other

none value: 2

None

Hardware failure value: 3

Hardware failure

Diag failure value: 4

Diag failure

Error disabled value: 5

Error disabled

Port software failure value: 6

Port Software failure

Link not connected value: 7

Link failure or not connected

offline value: 8

offline

nonPartcipating value: 9

Non participating

initializing value: 10

Initializing

inactive value: 11

Inactive

Administratively down value: 12

Administratively down

Channel admin down value: 13

Channel admin down

suspended value: 14

Suspended

Port suspended value: 199

Suspended

Memb update in progress value: 15

Channel membership update in progress

rcfInProgress value: 16

RCF is in progress

isolatedELPFail value: 17

Isolation due to ELP failure

isolatedESCFail value: 18

Isolation due to ESC failure

isolatedDomainOverlap value: 19

Isolation due to domain overlap

isolatedDomainidAssigmentFail value: 20

Isolation due to domain id assignment failure

isolatedOthersideEportIsolated value: 21

Isolation due to domain other side eport isolated

isolatedInvalidFabReconf value: 22

Isolation due to invalid fabric reconfiguration

isolatedDomainMgrDis value: 23

Isolation due to domain manager disabled

isolatedZoneMergeFail value: 24

Isolation due to zone merge failure

isolatedVsanMisConf value: 25

Isolation due to vsan not configured on peer

Parent Interface Admin down value: 26

Parent interface admin down

tunnelSrcUnbound value: 27

Tunnel port src interface unbound

Interface is removed value: 28

Interface is removed

SFP not present value: 29

SFP not present

SFP vendor not supported value: 30

Error disabled due to SFP vendor not supported

errDisabledIncompatPortMode value: 31

Error disabled due to incompatible admin port mode

errDisabledIncompatPortSpeed value: 32

Error disabled due to incompatible admin port speed

suspendedIncompatMode value: 33

Suspended due to incompatible mode

suspendedIncompatSpeed value: 34

Suspended due to incompatible speed

suspendedIncompatRemoteWWN value: 35

Suspended due to incompatible remote switch WWN

isolatedOthSideDomainMgrNoResp value: 36

Isolation due to domain manager other side not responding

errorDisabledEPPFail value: 37

Error Disabled due to EPP Failure

isolatedVsanMismatch value: 38

Isolation due to port vsan mismatch

isolatedPortLoopback value: 39

Isolation due to port loopback to same switch

LC upgrade in progress value: 40

Linecard upgrade in progress

errDisabledIncompatRxbbcredit value: 41

Error disabled due to incompatible admin port rxbbcredit

errDisabledIncompatRxbufsize value: 42

Error disabled due to incompatible admin port rxbufsize

No operational members value: 43

No operational members

isolatedRemoteservNoResp value: 44

Isolation due to remote zone server not responding

errDisabledIfaceGroupB value: 45

Error disabled due to first interface in this group is E

errDisabledIfaceGroupNoShut value: 46

Error disabled due to other interfaces in this group are not shut

tcpConnClosePeer value: 47

TCP connection closed by peer

tcpConnResetPeer value: 48

TCP connection rest by peer

tcpMaxRetx value: 49

TCP max retransmission reached

tcpKeepAliveExp value: 50

TCP keep alive timer expired

tcpPersistTmrExp value: 51

TCP persist timer expired

parentEthLinkDown value: 52

Parent ethernet link down

parentEthDown value: 53

Parent ethernet down

adminCfgChange value: 54

Admin config change

tunnelSrcPortRemoved value: 55

Tunnel src port removed

tunnelSrcModNotOnline value: 56

Tunnel source module not online

Port-ch misconfigured value: 57

Possible port channel misconfiguration

isolatedPortSecFail value: 58

Isolation due to port security failure

isolatedFabBindFail value: 59

Isolation due to fabric bind failure

isolatedNoCommVsan value: 60

Isolation due to no common vsans with peer on trunk

ficonVsanDown value: 61

Ficon vsan down

invalidAttachFiconMisConfig value: 62

Invalid attachment Ficon not configured on peer

portBlockedFicon value: 63

Port blocked due to Ficon

errDisabledIncompatRxbbPrefBuf value: 64

Error disabled due to incompatible admin port rxbbcredit performance buffers

suspendedInvalidFlogis value: 65

Suspended due to too many invalid flogis

suspendedPortSec value: 66

Suspended due to port security

isolatedELPFailRevMismatch value: 67

Isolation due to ELP failure revision mismatch

isolatedELPFailFParamErr value: 68

Isolation due to ELP failure class F param error

isolatedELPFailNParamErr value: 69

Isolation due to ELP failure class N param error

isolatedInvFlctrlCode value: 70

Isolation due to ELP failure invalid flow control code

isolatedInvFlctrlParam value: 71

Isolation due to ELP failure invalid flow control param

isolatedELPFailInvPortName value: 72

Isolation due to ELP failure invalid port name

isolatedELLPFailInvSwName value: 73

Isolation due to ELP failure invalid switch name

isolatedELPFailMismatch value: 74

Isolation due to ELP failure R_A_TOV or E_D_TOV mismatch

isolatedELPFailLoopback value: 75

Isolation due to ELP failure loopback detected

isolatedELPFailInvTxbbcredit value: 76

Isolation due to ELP failure invalid transmit B2B credit

isolatedELPFailInvPayloadSz value: 77

Isolation due to ELP failure invalid payload size

errDisabledPortChannelMisConfig value: 78

Error Disabled due to portchannel misconfiguration

linkNotConnected value: 82

Link failure Port unusable

linkFailSigLoss value: 83

Link failure loss of signal

linkFailSyncLoss value: 84

Link failure loss of sync

linkFailNOSRcvd value: 85

Link failure NOS received

linkFailOLSRcvd value: 86

Link failure OLS received

linkFailRenegFail value: 87

Link failure renegotiation failed

linkFailResetFail value: 88

Link failure Link Reset failed nonempty recv queue

linkFailEcxessCreditLoss value: 89

Link failure Excessive credit loss indications

linkFailRecvQOverflow value: 90

Link failure receive queue overflow

errDisabledExcessportInt value: 91

Error disabled due to excessive port interrupts

linkFailInitFail value: 92

Link failure Loop initialization failed nonempty recv queue

linkFailResetFailQNotEmpty value: 93

Link failure Link reset failed queue not empty

linkFailOPNyTORxQNotEmpty value: 94

Link failure OPNy timeout while receive queue not empty

linkFailOPNyRetRxQNotEmpty value: 95

Link failure OPNy returned while receive queue not empty

linkFailQNotEmpty value: 96

Link failure Link reset failed queue not empty

notConnected value: 97

Link failure or notconnected

isolatedFCSPFail value: 98

Isolation due to FCSP failure

SFP checksum error value: 99

SFP checksum error

suspendedExtLoopDiagFail value: 100

Suspended due to external Loopback diagnostics failure

isolatedInvFabBind value: 101

Invalid fabric binding exchange

isolatedTOVMismatch value: 102

Isolation due to TOV Mismatch

errDisabledFiconNotEnabled value: 103

Error disabled due to ficon not enabled

noFiconPortNum value: 104

Error disabled due to no ficon portnumber for logical interface

ficonEnabled value: 105

Ficon being enabled

ficonProhibit value: 106

Port down because prohibit mask in place for E TE port

gracefulShutdown value: 107

Gracefully shutdown

vsansNotUponTrunk value: 108

Not all VSANs UP on the trunk

isolatedFabBindWWNnotFound value: 109

Isolation due to fabric binding peer switch WWN not found

isolatedFabBindDomMismatch value: 110

Isolation due to fabric binding peer domain mismatch

isolatedFabBindDBMismatch value: 111

Isolation due to fabric binding database mismatch

isolatedNoPeerResp value: 112

Isolation due to fabric binding no response from peer

suspendedDynVsanSuspend value: 113

Suspended due to dynamic vsan suspension

suspendedDynVsanNotFound value: 114

Suspended due to dynamic vsan not found

trackedPortDown value: 115

All tracked ports down

suspendedExtendedCrednotAllowed value: 116

Suspended as extended credit mode not allowed for loop ports

Portchannel mis-config value: 117

Isolation due to portchannel misconfiguration

suspendedPeerNoPortchannelSupp value: 118

Peer device does not support portchannels

isolatedPortBringup value: 119

Isolation during port bringup

isolatedDomNotAllowed value: 120

Isolation due to domain not allowed

isolatedVirIVRDomOverlap value: 121

Isolation due to virtual IVR domain overlap

outOfService value: 122

Out of service

Authentication failed value: 123

Authentication failed

UDLD detected value: 144

Unidirectional UDLD detected

UDLD Tx Rx loop value: 145

UDLD Tx Rx loop

UDLD neighbor mismatch value: 146

UDLD neighbor mismatch

UDLD empty echo value: 166

UDLD empty echo

UDLD aggressive mode value: 192

UDLD detected link failure in aggressive mode

connectorTypeErr value: 125

Port connector type error

Port reinit limit reached value: 126

Error disabled due to reinit limit reached

duplicatePortInVsan value: 127

Duplicate port num in VSAN

internalRcfProgress value: 128

Internal RCF in progress

duplicateWwn value: 129

Duplicate WWN

invalidOthPrincEppRcvd value: 130

Invalid other princ epp req received

isolatedUnknowRsn value: 131

Isolated due to unknown reason

Module removed value: 255

Module removed

MTU allocation failed value: 153

MTU allocation failed

Incomplete configuration value: 150

Incomplete tunnel configuration

Hardware prog failed value: 151

hardware programming failed

No route to tunnel destination address value: 152

No route to tunnel destination address

Configuration Incomplete value: 149

All parameters have not been configured

SFP not inserted value: 155

SFP is not inserted

XCVR not inserted value: 239

Transceiver is not inserted

SFP validation failed value: 154

SFP is not Cisco certified

Transceiver validation failed value: 240

Transceiver is not Cisco certified

bitErrRateThresholdExceed value: 79

Bit error rate threshold exceeded

linkFailLinkReset value: 80

Link failure link reset

linkFailPortInitFail value: 81

Link failure port initialization failed

elpFailAllZeroPeerWwnRcvd value: 132

ELP failure, all zero peer WWN received

preferredPathIsolation value: 133

Isolation due to preferred path

fcRedirectIsolation value: 134

FC redirect isolation

portActLicenseNotAvailable value: 135

Port activity license not available

sdmIsolation value: 136

SDM isolation

fcidAllocationFail value: 137

FCID allocation failed

externallyDisabled value: 138

Externally disabled

Authorization pending value: 147

Authorization pending

Hot standby in bundle value: 148

Hot standby in bundle

Channel error-disabled value: 157

Channel error-disabled

Capability absent value: 156

Port capabilities could not be read from card_cfg server

Mismatch in source and transport VRFs value: 158

Mismatch in source and transport VRF

Forward referencing transport VRF value: 159

Forward referencing transport VRF

Duplicate tunnel configurations cannot coexist value: 160

two tunnel interface with same configuration is not allowed

linkFlapErrDisabled value: 143

Too many link flaps in a short interval

Primary vlan is down value: 161

Primary vlan is down.

VRF Unusable value: 162

VRF Unusable

Internal-Fail errDisable value: 163

Internal handshake failure

BPDUGuard errDisable value: 164

BPDUGuard triggered error disable

Port is disabled value: 168

Port is disabled

Sec-violation errDisable value: 165

error disabled due to security violation

tunnel mode is not configured value: 169

tunnel interface is down because mode is not configured

tunnel source is not configured value: 170

tunnel interface is down because source is not configured

tunnel destination is not configured value: 171

tunnel interface is down because destination is not configured

unable to resolve source ip-address value: 172

tunnel interface is down because could not resolved ip-address associated with tunnel source interface

unable to resolve tunnel destination ip-address value: 173

tunnel interface is down because could not resolved ip-address associated with tunnel destination

VRF configured to interface is down value: 174

tunnel interface is down because vrf configured to tunnel interface is down

STP inconsistency on VPC peer-link value: 193

Interface is error disabled becasue of STP inconsistency on VPC peer-link

STP set port state failure value: 194

Interface is error disabled becasue of STP set port state failure

suspended by vpc value: 195

port channel is down because it was suspended by vpc

vpc configuration is in progress value: 196

vpc configuration is in progress

vpc peerlink is down value: 197

vpc peer-link is down

no response from vpc peer value: 198

vpc down because failed to receive response from peer

vpc compatibility check failed value: 303

vpc down because compatibility check failed

not enough tcam entries value: 304

Not enough free entries in TCAM bank

source interface is down value: 200

tunnel interface is down because tunnel source interface is down

ipAddrConflictErrDisabled value: 203

Error disabled due to IP address conflict

fabricIfDown value: 184

Pinned fabric port is down

invalidFabIf value: 185

Invalid fabric port

FEX-fabric sfp invalid value: 202

FEX fabric sfp invalid

SDP timeout/SFP Mismatch value: 206

SDP timeout/SFP Mismatch

FEX identity mismatch value: 207

FEX identity mismatch

FEX not configured value: 209

FEX ID not configured on fabric port

IP QoS policy app failed value: 217

Error disabled due to IP QoS policy application failure

Router mac alloc failed value: 221

Router mac allocation failed

VLAN/BD does not exist value: 230

VLAN/BD does not exist

VLAN/BD is down value: 232

VLAN/BD is down

VLAN type is invalid value: 231

VLAN type is invalid

Non-routable VDC mode value: 250

Non-routable VDC mode

IP Qos DCBXP compat failed value: 234

Ip Qos DCBXP compat check failed

suspended(min-links) value: 251

Suspended due to minlinks

Parent interface down value: 254

Parent Interface Down

Inactive - M1 port not allowed in FabricPath-mode VLAN value: 253

Inactive - M1 port not allowed in FabricPath-mode VLAN

Transceiver speed does not match the speed configured on the port value: 237

The speed supported by the transceiver does not match the speed configured on the port

Transceiver auth failure value: 285

Transceiver authentication failed on the port

vPC+SwitchIDNotCfgd value: 256

Fabric Path switch ID not configured for vPC+ Peer Link

vPC+PeerLnkNotFabricPath value: 257

vPC+ peer link port is not configured as a Fabric Path port

The transceiver has failed ethernet compliance value: 262

The transceiver has failed ethernet compliance

check speed-group config value: 307

Speed-Group config does not match type of transceiver

suspended(no LACP PDUs) value: 272

Suspended due to no LACP PDUs received from peer

Command Modes

- /exec

show interface status err-vlans (if_manager)

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
ifeth_errvlans	Type: interface-mrange Enter interface type and number in module/slot format
status	Show interface line status
err-vlans	Show errored vlans
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name
TABLE_vlan	show vlan
err_vlan	Type: string Errored vlan
err_vlan_status	Type: string Errored vlan status

err_vlan_syserr

Errored vlan syserr name

Invalid/New Syserr? - Update if_manager_cmd.h and pm_cli_eth.c Ex: CSCsv27076 value: 0

Invalid Syserr

SYSERR_PM_TIMEOUT value: 0x40290025

SYSERR_PM_TIMEOUT

SYSERR_MCECM_PEER_UNRCH value: 0x41B70034

SYSERR_MCECM_PEER_UNRCH

SYSERR_MCECM_VLAN_NOT_ALLOWED_PEER value: 0x41B70036

SYSERR_MCECM_VLAN_NOT_ALLOWED_PEER

SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F

SYSERR_MCECM_DOMAIN_COMPAT_FAILED

SYSERR_MCECM_ELECTION_ERROR value: 0x41B70037

SYSERR_MCECM_ELECTION_ERROR

SYSERR_MCECM_COMPAT_FAILED value: 0x41B7000F

SYSERR_MCECM_COMPAT_FAILED

SYSERR_MCECM_PEER_NOT_CFG value: 0x41B70025

SYSERR_MCECM_PEER_NOT_CFG

SYSERR_MCECM_MCT_NOT_UP value: 0x41B70035

SYSERR_MCECM_MCT_NOT_UP

SYSERR_MCECM_VLAN_NOT_CFGD_PEER value: 0x41B7003D

SYSERR_MCECM_VLAN_NOT_CFGD_PEER

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED value: 0x41B70044

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED

SYSERR_MCECM_OOB_NOT_OPERATIONAL value: 0x41B7004D

SYSERR_MCECM_OOB_NOT_OPERATIONAL

SYSERR_MCECM_VLAN_MODE_NOT_ALLOWED value: 0x41B7006C

SYSERR_MCECM_VLAN_MODE_NOT_ALLOWED

SYSERR_PM_COMPAT_CHECK_FAIL_SPEED value: 0x40290113

SYSERR_PM_COMPAT_CHECK_FAIL_SPEED

SYSERR_PM_COMPAT_CHECK_FAIL_DUPLEX value: 0x40290114

SYSERR_PM_COMPAT_CHECK_FAIL_DUPLEX

SYSERR_PM_COMPAT_CHECK_FAIL_PORT_MODE value: 0x40290115

SYSERR_PM_COMPAT_CHECK_FAIL_PORT_MODE

SYSERR_PM_COMPAT_CHECK_FAIL_NATIVE_VLAN value: 0x40290116

SYSERR_PM_COMPAT_CHECK_FAIL_NATIVE_VLAN

SYSERR_PM_COMPAT_CHECK_FAIL_MTU value: 0x40290117

SYSERR_PM_COMPAT_CHECK_FAIL_MTU

SYSERR_STP_COMPAT_CHECK_FAILURE value: 0x40DD003A

SYSERR_STP_COMPAT_CHECK_FAILURE

SYSERR_STP_MODE_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD003B

SYSERR_STP_MODE_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_ENDIS_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD003C

SYSERR_STP_ENDIS_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_MST_REGION_CFG_NAME_TYPE1_COMPAT_CHECK_FAIL value: 0

SYSERR_STP_MST_REGION_CFG_NAME_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_MST_REGION_CFG_REV_TYPE1_COMPAT_CHECK_FAIL value: 0x

SYSERR_STP_MST_REGION_CFG_REV_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_MST_REGION_CFG_VI_TYPE1_COMPAT_CHECK_FAIL value: 0x40

SYSERR_STP_MST_REGION_CFG_VI_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_LOOPGUARD_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0040

SYSERR_STP_LOOPGUARD_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_BA_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0041

SYSERR_STP_BA_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0042

SYSERR_STP_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_IF_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0043

SYSERR_STP_IF_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_IF_PORT_GUARD_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD00

SYSERR_STP_IF_PORT_GUARD_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_GBL_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL value: 0x40D

SYSERR_STP_GBL_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_IF_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0

SYSERR_STP_IF_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL

Command Modes

- /exec

show interface status err-vlans (if_manager)

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__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name
TABLE_vlan	show vlan
err_vlan	Type: string Errored vlan
err_vlan_status	Type: string Errored vlan status

err_vlan_syserr

Errored vlan syserr name

Invalid/New Syserr? - Update if_manager_cmd.h and pm_cli_eth.c Ex: CSCsv27076 value: 0

Invalid Syserr

SYSERR_PM_TIMEOUT value: 0x40290025

SYSERR_PM_TIMEOUT

SYSERR_MCECM_PEER_UNRCH value: 0x41B70034

SYSERR_MCECM_PEER_UNRCH

SYSERR_MCECM_VLAN_NOT_ALLOWED_PEER value: 0x41B70036

SYSERR_MCECM_VLAN_NOT_ALLOWED_PEER

SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F

SYSERR_MCECM_DOMAIN_COMPAT_FAILED

SYSERR_MCECM_ELECTION_ERROR value: 0x41B70037

SYSERR_MCECM_ELECTION_ERROR

SYSERR_MCECM_COMPAT_FAILED value: 0x41B7000F

SYSERR_MCECM_COMPAT_FAILED

SYSERR_MCECM_PEER_NOT_CFG value: 0x41B70025

SYSERR_MCECM_PEER_NOT_CFG

SYSERR_MCECM_MCT_NOT_UP value: 0x41B70035

SYSERR_MCECM_MCT_NOT_UP

SYSERR_MCECM_VLAN_NOT_CFGD_PEER value: 0x41B7003D

SYSERR_MCECM_VLAN_NOT_CFGD_PEER

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED value: 0x41B70044

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED

SYSERR_MCECM_OOB_NOT_OPERATIONAL value: 0x41B7004D

SYSERR_MCECM_OOB_NOT_OPERATIONAL

SYSERR_MCECM_VLAN_MODE_NOT_ALLOWED value: 0x41B7006C

SYSERR_MCECM_VLAN_MODE_NOT_ALLOWED

SYSERR_PM_COMPAT_CHECK_FAIL_SPEED value: 0x40290113

SYSERR_PM_COMPAT_CHECK_FAIL_SPEED

SYSERR_PM_COMPAT_CHECK_FAIL_DUPLEX value: 0x40290114

SYSERR_PM_COMPAT_CHECK_FAIL_DUPLEX

SYSERR_PM_COMPAT_CHECK_FAIL_PORT_MODE value: 0x40290115

SYSERR_PM_COMPAT_CHECK_FAIL_PORT_MODE

SYSERR_PM_COMPAT_CHECK_FAIL_NATIVE_VLAN value: 0x40290116

SYSERR_PM_COMPAT_CHECK_FAIL_NATIVE_VLAN

SYSERR_PM_COMPAT_CHECK_FAIL_MTU value: 0x40290117

SYSERR_PM_COMPAT_CHECK_FAIL_MTU

SYSERR_STP_COMPAT_CHECK_FAILURE value: 0x40DD003A

SYSERR_STP_COMPAT_CHECK_FAILURE

SYSERR_STP_MODE_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD003B

SYSERR_STP_MODE_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_ENDIS_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD003C

SYSERR_STP_ENDIS_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_MST_REGION_CFG_NAME_TYPE1_COMPAT_CHECK_FAIL value: 0

SYSERR_STP_MST_REGION_CFG_NAME_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_MST_REGION_CFG_REV_TYPE1_COMPAT_CHECK_FAIL value: 0x

SYSERR_STP_MST_REGION_CFG_REV_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_MST_REGION_CFG_VI_TYPE1_COMPAT_CHECK_FAIL value: 0x40

SYSERR_STP_MST_REGION_CFG_VI_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_LOOPGUARD_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0040

SYSERR_STP_LOOPGUARD_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_BA_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0041

SYSERR_STP_BA_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0042

SYSERR_STP_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_IF_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0043

SYSERR_STP_IF_PORT_TYPE_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_IF_PORT_GUARD_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD00

SYSERR_STP_IF_PORT_GUARD_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_GBL_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL value: 0x40D

SYSERR_STP_GBL_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL

SYSERR_STP_IF_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL value: 0x40DD0

SYSERR_STP_IF_MST_SIM_PVST_TYPE1_COMPAT_CHECK_FAIL

Command Modes

- /exec

show interface status fex

show interface status fex *fex_num* [**__readonly__ TABLE_interface** *interface* [*name*] *state vlan duplex speed* [*type*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
fex	Limit display to interfaces on a FEX
fex_num	Type: integer min: 100 max: 199 Enter FEX number
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
name	Type: string Name
state	Interface state **up value: 0x0001** state is up **down value: 0x0002** state is down **testing value: 0x0004** state is testing **trunking value: 0x0008** state is trunking **link-up value: 0x0010** state is link up
vlan	Type: string Vlan

duplex	Duplex **auto value: 3** Auto **half value: 1** Half **full value: 2** Full

speed	Speed **auto value: 0** Auto **10 value: 10** 10Mb/s **100 value: 100** 100Mb/s **auto value: 110** Auto 10-100Mb/s **1000 value: 1000** 1Gb/s **10G value: 10000** 10Gb/s **a-10 value: 16** 10Mb/s **a-100 value: 106** 100Mb/s **a-1000 value: 1006** 1Gb/s **a-10G value: 10006** 10Gb/s **40G value: 40000** 40Gb/s **100G value: 100000** 100Gb/s **a-40G value: 40006** 40Gb/s **a-100G value: 100006** 100Gb/s
type	Type: string Type

Command Modes

- /exec

show interface switchport (if_manager)

show interface *ifeth_swtch* **switchport** [**__readonly__ TABLE_interface** *interface switchport* [*switchport_monitor*] [*oper_mode*] [*access_vlan*] [*access_vlan_name*] [*native_vlan*] [*native_vlan_name*] [*trunk_vlans*] [*fabricpath_topologies*] [*pruning_vlans*] [*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
ifeth_swtch	Type: interface-mrange Enter interface type and number in module/slot format
switchport	Show interface switchport information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
switchport	Type: string Switchport enabled
switchport_monitor	Switchport monitor enabled **Not enabled value: 0** Not enabled **Enabled value: 1** Enabled

oper_mode	Operational mode **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **Private-vlan host value: 0x00400000** PVLAN host **Private-vlan promiscuous value: 0x00800000** PVLAN promiscuous **Private-vlan trunk promiscuous value: 0x10000000** PVLAN trunk promiscuous **Private-vlan trunk secondary value: 0x20000000** PVLAN_trunk_secondary **fex-fabric value: 0x02000000** FEX fabric **dot1q-tunnel value: 0x01000000** 1qTunl **FabricPath value: 0x00100003** FabricPath
access_vlan	Type: uinteger Access mode VLAN
access_vlan_name	Type: string Access mode VLAN name
native_vlan	Type: uinteger Trunking native mode VLAN
native_vlan_name	Type: string Trunking native mode VLAN name
trunk_vlans	Type: string Trunking VLANs Allowed
fabricpath_topologies	Type: string FabricPath Topologies Allowed

pruning_vlans	Type: string Pruning eligible VLANs
admin_pvlan_pri_assoc	Type: string Administrative private-vlan primary host-association
admin_pvlan_sec_assoc	Type: string Administrative private-vlan secondary host-association
admin_pvlan_pri_mapping	Type: string Administrative private-vlan primary mapping
admin_pvlan_sec_mapping	Type: string Administrative private-vlan secondary mapping
admin_pvlan_trunk_native	Type: string Administrative private-vlan trunk native VLAN
admin_pvlan_trunk_encap	Type: string Administrative private-vlan trunk encapsulation
admin_pvlan_trunk_normal	Type: string Administrative private-vlan trunk normal VLANs
admin_pvlan_trunk_private	Type: string Administrative private-vlan trunk private VLANs
oper_pvlan	Type: string Operational private-vlan
autostate_mode	Type: string SVI Autostate Exclude Info

Command Modes

- /exec

show interface switchport (if_manager)

show interface switchport [**__readonly__ TABLE_interface** *interface switchport* [*switchport_monitor*] [*oper_mode*] [*access_vlan*] [*access_vlan_name*] [*native_vlan*] [*native_vlan_name*] [*trunk_vlans*] [*fabricpath_topologies*] [*pruning_vlans*] [*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
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
switchport	Type: string Switchport enabled
switchport_monitor	Switchport monitor enabled **Not enabled value: 0** Not enabled **Enabled value: 1** Enabled

oper_mode	Operational mode **access value: 0x00080000** Access **trunk value: 0x00100000** Trunk **Private-vlan host value: 0x00400000** PVLAN host **Private-vlan promiscuous value: 0x00800000** PVLAN promiscuous **Private-vlan trunk promiscuous value: 0x10000000** PVLAN trunk promiscuous **Private-vlan trunk secondary value: 0x20000000** PVLAN_trunk_secondary **fex-fabric value: 0x02000000** FEX fabric **dot1q-tunnel value: 0x01000000** 1qTunl **FabricPath value: 0x00100003** FabricPath
access_vlan	Type: uinteger Access mode VLAN
access_vlan_name	Type: string Access mode VLAN name
native_vlan	Type: uinteger Trunking native mode VLAN
native_vlan_name	Type: string Trunking native mode VLAN name
trunk_vlans	Type: string Trunking VLANs Allowed
fabricpath_topologies	Type: string FabricPath Topologies Allowed

pruning_vlans	Type: string Pruning eligible VLANs
admin_pvlan_pri_assoc	Type: string Administrative private-vlan primary host-association
admin_pvlan_sec_assoc	Type: string Administrative private-vlan secondary host-association
admin_pvlan_pri_mapping	Type: string Administrative private-vlan primary mapping
admin_pvlan_sec_mapping	Type: string Administrative private-vlan secondary mapping
admin_pvlan_trunk_native	Type: string Administrative private-vlan trunk native VLAN
admin_pvlan_trunk_encap	Type: string Administrative private-vlan trunk encapsulation
admin_pvlan_trunk_normal	Type: string Administrative private-vlan trunk normal VLANs
admin_pvlan_trunk_private	Type: string Administrative private-vlan trunk private VLANs
oper_pvlan	Type: string Operational private-vlan
autostate_mode	Type: string SVI Autostate Exclude Info

Command Modes

- /exec

show interface transceiver (if_manager)

show interface *ifid_transceiver* **transceiver** [**calibrations**| **details**| **sprom**] [**__readonly__ TABLE_interface** *interface* [*sfp*] [*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*] [*ciscoid*] [*ciscoid_1*] [*cisco_part_number*] [*cisco_product_id*] [*cisco_vendor_id*] [*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_alrm_hi*] [*temp_alrm_lo*] [*temp_warn_hi*] [*temp_warn_lo*] [*voltage*] [*volt_flag*] [*volt_alrm_hi*] [*volt_alrm_lo*] [*volt_warn_hi*] [*volt_warn_lo*] [*current*] [*current_flag*] [*current_alrm_hi*] [*current_alrm_lo*] [*current_warn_hi*] [*current_warn_lo*] [*tx_pwr*] [*tx_pwr_flag*] [*tx_pwr_alrm_hi*] [*tx_pwr_alrm_lo*] [*tx_pwr_warn_hi*] [*tx_pwr_warn_lo*] [*rx_pwr*] [*rx_pwr_flag*] [*rx_pwr_alrm_hi*] [*rx_pwr_alrm_lo*] [*rx_pwr_warn_hi*] [*rx_pwr_warn_lo*] [*xmit_faults*]]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_transceiver	Type: interface-mrange Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	Show interface transceiver calibration information
details	Show interface transceiver detail information
sprom	Show interface transceiver sprom information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
sfp	Type: string sfp
type	Type: string type
name	Type: string Name

partnum	Type: string part number
rev	Type: string revision
serialnum	Type: string serial number
nom_bitrate	Type: uinteger Nominal bit rate in MBits/sec
len_9	Type: uinteger Link length supported for 9/125um fiber in Km
len_9_2	Type: uinteger Link length supported for 9/125um fiber in m
len_50	Type: uinteger Link length supported for 50/125um fiber in m
len_625	Type: uinteger Link length supported for 62.5/125um fiber in m
len_cu	Type: uinteger Link length supported for copper sfp in m
len_50_OM3	Type: uinteger Link length supported for 50/125um fiber in m
txcvr_type	Type: string
connector_type	Type: string
bit_encoding	Type: string
protocol_type	Type: string
10gbe_code	Type: string
fiber_type_byte0	Type: string
fiber_type_byte1	Type: string
tx_range	Type: uinteger

ciscoid	Type: string Cisco extended id
ciscoid_1	Type: uinteger Cisco extended id number
cisco_part_number	Type: string Cisco part number
cisco_product_id	Type: string Cisco product identifier
cisco_vendor_id	Type: string Cisco vendor identifier
temp_slope	Type: uinteger Temperature slope
temp_offset	Type: uinteger Temperature offset
volt_slope	Type: uinteger Voltage slope
volt_offset	Type: uinteger Voltage offset
curr_slope	Type: uinteger Current slope
curr_offset	Type: uinteger Current offset
tx_pwr_slope	Type: uinteger Tx power slope
tx_pwr_offset	Type: uinteger Tx power offset
rx_pwr_4	Type: float Rx power 4
rx_pwr_3	Type: float Rx power 3

rx_pwr_2	Type: float Rx power 2
rx_pwr_1	Type: float Rx power 1
rx_pwr_0	Type: float Rx power 0
TABLE_lane	show lane
lane_number	Type: uinteger Lane number
temperature	Type: float Temperature
temp_flag	Temperature Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning
temp_alrm_hi	Type: float Temperature Alarm High
temp_alrm_lo	Type: float Temperature Alarm Low
temp_warn_hi	Type: float Temperature Warning High
temp_warn_lo	Type: float Temperature Warning Low

voltage	Type: float Voltage
volt_flag	Voltage Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning
volt_alrm_hi	Type: float Voltage Alarm High
volt_alrm_lo	Type: float Voltage Alarm Low
volt_warn_hi	Type: float Voltage Warning High
volt_warn_lo	Type: float Voltage Warning Low
current	Type: float Current

current_flag	Current Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning
current_alrm_hi	Type: float Current Alarm High
current_alrm_lo	Type: float Current Alarm Low
current_warn_hi	Type: float Current Warning High
current_warn_lo	Type: float Current Warning Low
tx_pwr	Type: float Tx Power
tx_pwr_flag	Tx Power Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning

tx_pwr_alrm_hi	Type: float Tx Power Alarm High
tx_pwr_alrm_lo	Type: float Tx Power Alarm Low
tx_pwr_warn_hi	Type: float Tx Power Warning High
tx_pwr_warn_lo	Type: float Tx Power Warning Low
rx_pwr	Type: float Rx Power
rx_pwr_flag	Rx Power Flag **++ value: 1** High Alarm **+ value: 2** High Warning **- value: 3** Low Warning **-- value: 4** Low Alarm **value: 5** No Alarm or Warning
rx_pwr_alrm_hi	Type: float Rx Power Alarm High
rx_pwr_alrm_lo	Type: float Rx Power Alarm Low
rx_pwr_warn_hi	Type: float Rx Power Warning High
rx_pwr_warn_lo	Type: float Rx Power Warning Low
xmit_faults	Type: longlong Transmit Fault Count

Command Modes

- /exec

show interface transceiver (if_manager)

show interface transceiver [**calibrations**| **details**] [**__readonly__ TABLE_interface** *interface* [*sfp*] [*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_range*] [*ciscoid*] [*ciscoid_1*] [*cisco_part_number*] [*cisco_product_id*] [*cisco_vendor_id*] [*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_alrm_hi*] [*temp_alrm_lo*] [*temp_warn_hi*] [*temp_warn_lo*] [*voltage*] [*volt_flag*] [*volt_alrm_hi*] [*volt_alrm_lo*] [*volt_warn_hi*] [*volt_warn_lo*] [*current*] [*current_flag*] [*current_alrm_hi*] [*current_alrm_lo*] [*current_warn_hi*] [*current_warn_lo*] [*tx_pwr*] [*tx_pwr_flag*] [*tx_pwr_alrm_hi*] [*tx_pwr_alrm_lo*] [*tx_pwr_warn_hi*] [*tx_pwr_warn_lo*] [*rx_pwr*] [*rx_pwr_flag*] [*rx_pwr_alrm_hi*] [*rx_pwr_alrm_lo*] [*rx_pwr_warn_hi*] [*rx_pwr_warn_lo*] [*xmit_faults*]]]

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
calibrations	Show interface transceiver calibration information
details	Show interface transceiver detail information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
sfp	Type: string sfp
type	Type: string type
name	Type: string Name
partnum	Type: string part number
rev	Type: string revision

serialnum	Type: string serial number
nom_bitrate	Type: uinteger Nominal bit rate in MBits/sec
len_9	Type: uinteger Link length supported for 9/125um fiber
len_50	Type: uinteger Link length supported for 50/125um fiber
len_625	Type: uinteger Link length supported for 62.5/125um fiber
len_cu	Type: uinteger Link length supported for copper
len_50_OM3	Type: uinteger Link length supported for 50/125um fiber in m
txcvr_type	Type: string
connector_type	Type: string
bit_encoding	Type: string
protocol_type	Type: string
10gbe_code	Type: string
fiber_type_byte0	Type: string
fiber_type_byte1	Type: string
tx_range	Type: uinteger
ciscoid	Type: string Cisco extended id
ciscoid_1	Type: uinteger Cisco extended id number
cisco_part_number	Type: string Cisco part number

cisco_product_id	Type: string Cisco product identifier
cisco_vendor_id	Type: string Cisco vendor identifier
temp_slope	Type: uinteger Temperature slope
temp_offset	Type: uinteger Temperature offset
volt_slope	Type: uinteger Voltage slope
volt_offset	Type: uinteger Voltage offset
curr_slope	Type: uinteger Current slope
curr_offset	Type: uinteger Current offset
tx_pwr_slope	Type: uinteger Tx power slope
tx_pwr_offset	Type: uinteger Tx power offset
rx_pwr_4	Type: float Rx power 4
rx_pwr_3	Type: float Rx power 3
rx_pwr_2	Type: float Rx power 2
rx_pwr_1	Type: float Rx power 1
rx_pwr_0	Type: float Rx power 0

TABLE_lane	show lane
lane_number	Type: uinteger Lane number
temperature	Type: float Temperature
temp_flag	Temperature Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning
temp_alrm_hi	Type: float Temperature Alarm High
temp_alrm_lo	Type: float Temperature Alarm Low
temp_warn_hi	Type: float Temperature Warning High
temp_warn_lo	Type: float Temperature Warning Low
voltage	Type: float Voltage

volt_flag	Voltage Flag **++ value: 1** High Alarm **+ value: 2** High Warning **- value: 3** Low Warning **-- value: 4** Low Alarm **value: 5** No Alarm or Warning
volt_alrm_hi	Type: float Voltage Alarm High
volt_alrm_lo	Type: float Voltage Alarm Low
volt_warn_hi	Type: float Voltage Warning High
volt_warn_lo	Type: float Voltage Warning Low
current	Type: float Current
current_flag	Current Flag **++ value: 1** High Alarm **+ value: 2** High Warning **- value: 3** Low Warning **-- value: 4** Low Alarm **value: 5** No Alarm or Warning

current_alrm_hi	Type: float Current Alarm High
current_alrm_lo	Type: float Current Alarm Low
current_warn_hi	Type: float Current Warning High
current_warn_lo	Type: float Current Warning Low
tx_pwr	Type: float Tx Power
tx_pwr_flag	Tx Power Flag **++ value: 1** High Alarm **+ value: 2** High Warning **- value: 3** Low Warning **-- value: 4** Low Alarm **value: 5** No Alarm or Warning
tx_pwr_alrm_hi	Type: float Tx Power Alarm High
tx_pwr_alrm_lo	Type: float Tx Power Alarm Low
tx_pwr_warn_hi	Type: float Tx Power Warning High
tx_pwr_warn_lo	Type: float Tx Power Warning Low
rx_pwr	Type: float Rx Power

rx_pwr_flag	Rx Power Flag **++ value: 1** High Alarm **+ value: 2** High Warning **- value: 3** Low Warning **-- value: 4** Low Alarm **value: 5** No Alarm or Warning
rx_pwr_alrm_hi	Type: float Rx Power Alarm High
rx_pwr_alrm_lo	Type: float Rx Power Alarm Low
rx_pwr_warn_hi	Type: float Rx Power Warning High
rx_pwr_warn_lo	Type: float Rx Power Warning Low
xmit_faults	Type: longlong Transmit Fault Count

Command Modes

- /exec

show interface transceiver fex-fabric (if_manager)

show interface *ifeth_trans* **transceiver fex-fabric** [**calibrations**| **details**] [**__readonly__ TABLE_interface** *interface sfp name partnum rev serialnum nom_bitrate len_50 len_625 ciscoid ciscoid_1* [*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*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_trans	Type: interface-mrange Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	Show interface transceiver calibration information
details	Show interface transceiver detail information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
sfp	Type: string sfp
name	Type: string Name
partnum	Type: string part number
rev	Type: string revision
serialnum	Type: string serial number

nom_bitrate	Type: uinteger Nominal bit rate in MBits/sec
len_50	Type: uinteger Link length supported for 50/125mm fiber
len_625	Type: uinteger Link length supported for 62.5/125mm fiber
ciscoid	Type: string Cisco extended id
ciscoid_1	Type: uinteger Cisco extended id number
temp_slope	Type: uinteger Temperature slope
temp_offset	Type: uinteger Temperature offset
volt_slope	Type: uinteger Voltage slope
volt_offset	Type: uinteger Voltage offset
curr_slope	Type: uinteger Current slope
curr_offset	Type: uinteger Current offset
tx_pwr_slope	Type: uinteger Tx power slope
tx_pwr_offset	Type: uinteger Tx power offset
rx_pwr_4	Type: float Rx power 4
rx_pwr_3	Type: float Rx power 3

rx_pwr_2	Type: float Rx power 2
rx_pwr_1	Type: float Rx power 1
rx_pwr_0	Type: float Rx power 0

Command Modes

- /exec

show interface transceiver fex-fabric (if_manager)

show interface transceiver fex-fabric [**calibrations**| **details**] [**__readonly__ TABLE_interface** *interface* [*sfp*] [*type*] [*name*] [*partnum*] [*rev*] [*serialnum*] [*nom_bitrate*] [*len_50*] [*len_625*] [*ciscoid*] [*ciscoid_1*] [*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*] [*lane_number*] [*temperature*] [*temp_flag*] [*temp_alrm_hi*] [*temp_alrm_lo*] [*temp_warn_hi*] [*temp_warn_lo*] [*voltage*] [*volt_flag*] [*volt_alrm_hi*] [*volt_alrm_lo*] [*volt_warn_hi*] [*volt_warn_lo*] [*current*] [*current_flag*] [*current_alrm_hi*] [*current_alrm_lo*] [*current_warn_hi*] [*current_warn_lo*] [*tx_pwr*] [*tx_pwr_flag*] [*tx_pwr_alrm_hi*] [*tx_pwr_alrm_lo*] [*tx_pwr_warn_hi*] [*tx_pwr_warn_lo*] [*rx_pwr*] [*rx_pwr_flag*] [*rx_pwr_alrm_hi*] [*rx_pwr_alrm_lo*] [*rx_pwr_warn_hi*] [*rx_pwr_warn_lo*] [*xmit_faults*]]

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	Show interface transceiver calibration information
details	Show interface transceiver detail information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
sfp	Type: string sfp
type	Type: string type
name	Type: string Name
partnum	Type: string part number
rev	Type: string revision

serialnum	Type: string serial number
nom_bitrate	Type: uinteger Nominal bit rate in MBits/sec
len_50	Type: uinteger Link length supported for 50/125mm fiber
len_625	Type: uinteger Link length supported for 62.5/125mm fiber
ciscoid	Type: string Cisco extended id
ciscoid_1	Type: uinteger Cisco extended id number
temp_slope	Type: uinteger Temperature slope
temp_offset	Type: uinteger Temperature offset
volt_slope	Type: uinteger Voltage slope
volt_offset	Type: uinteger Voltage offset
curr_slope	Type: uinteger Current slope
curr_offset	Type: uinteger Current offset
tx_pwr_slope	Type: uinteger Tx power slope
tx_pwr_offset	Type: uinteger Tx power offset
rx_pwr_4	Type: float Rx power 4

rx_pwr_3	Type: float Rx power 3
rx_pwr_2	Type: float Rx power 2
rx_pwr_1	Type: float Rx power 1
rx_pwr_0	Type: float Rx power 0
lane_number	Type: uinteger Lane number
temperature	Type: float Temperature
temp_flag	Temperature Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning
temp_alrm_hi	Type: float Temperature Alarm High
temp_alrm_lo	Type: float Temperature Alarm Low
temp_warn_hi	Type: float Temperature Warning High
temp_warn_lo	Type: float Temperature Warning Low

voltage	Type: float Voltage
volt_flag	Voltage Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning
volt_alrm_hi	Type: float Voltage Alarm High
volt_alrm_lo	Type: float Voltage Alarm Low
volt_warn_hi	Type: float Voltage Warning High
volt_warn_lo	Type: float Voltage Warning Low
current	Type: float Current

current_flag	Current Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning
current_alrm_hi	Type: float Current Alarm High
current_alrm_lo	Type: float Current Alarm Low
current_warn_hi	Type: float Current Warning High
current_warn_lo	Type: float Current Warning Low
tx_pwr	Type: float Tx Power
tx_pwr_flag	Tx Power Flag ++ **value: 1** High Alarm + **value: 2** High Warning - **value: 3** Low Warning -- **value: 4** Low Alarm **value: 5** No Alarm or Warning

tx_pwr_alrm_hi	Type: float Tx Power Alarm High
tx_pwr_alrm_lo	Type: float Tx Power Alarm Low
tx_pwr_warn_hi	Type: float Tx Power Warning High
tx_pwr_warn_lo	Type: float Tx Power Warning Low
rx_pwr	Type: float Rx Power
rx_pwr_flag	Rx Power Flag **++ value: 1** High Alarm **+ value: 2** High Warning **- value: 3** Low Warning **-- value: 4** Low Alarm **value: 5** No Alarm or Warning
rx_pwr_alrm_hi	Type: float Rx Power Alarm High
rx_pwr_alrm_lo	Type: float Rx Power Alarm Low
rx_pwr_warn_hi	Type: float Rx Power Warning High
rx_pwr_warn_lo	Type: float Rx Power Warning Low
xmit_faults	Type: longlong Transmit Fault Count

Command Modes

- /exec

show interface trunk (if_manager)

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 vtppruning_vlans*]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_trnk	Type: interface-mrange Enter interface type and number in module/slot format
trunk	Show interface trunk information
__readonly__	Read Only
interface	Type: interface Interface index
TABLE_interface	show interface
TABLE_allowed_vlans	show allowed vlans
TABLE_errored_vlans	show errored vlans
TABLE_stp_forward	show STP forwarding VLANs
TABLE_fabricpath_vlans	show fabricpath VLANs
TABLE_vtp_pruning	show VTP pruning VLANs
status	Type: string Status
native	Type: uinteger Native VLAN
portchannel	Type: string Port Channel
allowedvlans	Type: string VLANs allowed and active in management domain

erroredvlans	Type: string Errored VLANs
stpfwd_vlans	Type: string STP Forwarding VLANs
fabricpath_vlans	Type: string FabricPath VLANs
vtppruning_vlans	Type: string VTP Pruning VLANs

Command Modes

- /exec

show interface trunk (if_manager)

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 stpfwd_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	Limit display to interfaces on module
module	Type: integer Enter module number
fex	Limit display to interfaces on a FEX
fex_num	Type: integer min: 100 max: 199 Enter FEX number
vlan	Show per vlan information for trunk
vlan_id	Type: vlan-mrange Enter vlan range
interface	Type: interface Interface index
__readonly__	Read Only
TABLE_interface	show interface
TABLE_allowed_vlans	show allowed vlans
TABLE_errored_vlans	show errored vlans
TABLE_stp_forward	show STP forwarding VLANs
TABLE_fabricpath_vlans	show fabricpath VLANs
TABLE_vtp_pruning	show VTP pruning VLANs

status	Type: string Status
native	Type: uinteger Native VLAN
portchannel	Type: string Port Channel
allowedvlans	Type: string VLANs allowed and active in management domain
erroredvlans	Type: string Errored VLANs
stpfwd_vlans	Type: string STP Forwarding VLANs
fabricpath_vlans	Type: string FabricPath VLANs
vtppruning_vlans	Type: string VTP Pruning VLANs

Command Modes

- /exec

show inventory

show inventory [**chassis**| **clock**| **fans**| **power_supply**| **module** [*module*]| *s0* [*santa-cruz-range*]] [**__readonly__ TABLE_inv** *name desc productid vendorid serialnum*]

Syntax Description

show	Show running system information
inventory	system inventory information
chassis	system inventory chassis information
clock	system inventory clock information
fans	system inventory fan information
power_supply	system inventory power supply information
module	system inventory module information
module	Type: integer please enter the module number
s0	Type: xbar-str please enter the module number
santa-cruz-range	Type: integer please enter the xbar number
__readonly__	
TABLE_inv	Inventory table
name	Type: string Name of inventory
desc	Type: string Description of inventory
productid	Type: string Product ID
vendorid	Type: string Vendor ID

serialnum	Type: string Serial Number

Command Modes

- /exec

show inventory fex

show inventory fex *i* [**__readonly__ TABLE_inv** *name desc productid vendorid serialnum*]

Syntax Description

show	Show running system information
inventory	system inventory information
fex	Show fex physical inventory
i	Type: integer min: 100 max: 199 Enter FEX identifier
__readonly__	
TABLE_inv	Inventory table
name	Type: string Name of inventory
desc	Type: string Description of inventory
productid	Type: string Product ID
vendorid	Type: string Vendor ID
serialnum	Type: string Serial Number

Command Modes

- /exec

show ip (bgp)

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** {*extcommlist-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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
route-map	Display routes matching the route-map
rmap-name	Type: string pattern: [!-~]* length: 63 Route-map name
rmap-name	Type: string Known route-map name
filter-list	Display routes matching the filter-list

fltrlist-name	Type: string length: 63 Name of filter-list
community-list	Display routes matching the community-list
extcommunity-list	Display routes matching the extcommunity-list
commlist-name	Type: string length: 63 Name of community-list
extcommlist-name	Type: string length: 63 Name of extcommunity-list
test_pol_name	Type: string An existing test-list policy
ipv4	Display BGP information for IPv4 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
exact-match	Exact match of the communities

Command Modes

- /exec

show ip (bgp)

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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ip-addr	Type: ipaddr Display one particular network from the BRIB in detail
ip-mask	Type: ipaddr Mask for one particular prefix in the BRIB
ip-prefix	Type: ipprefix Display one particular prefix from the BRIB in detail
longer-prefixes	Display route and more specific routes
ipv4	Display BGP information for IPv4 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
all	Display BGP information for all address families

Command Modes

- /exec

show ip adjacency

show ip adjacency [*interface* **[summary]**| *ip-addr* [**non-best**| **detail**]| **detail**| **summary**| **non-best**| **[throttle] statistics**] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** [*invalid_pkt_cnt*] [*invalid_byte_cnt*] [*global_drop_pkt_cnt*] [*global_drop_byte_cnt*] [*global_punt_pkt_cnt*] [*global_punt_byte_cnt*] [*global_glean_pkt_cnt*] [*global_glean_byte_cnt*] [*glean_pkt_cnt*] [*glean_byte_cnt*] [*normal_pkt_cnt*] [*normal_byte_cnt*] [*last_updated*] [*count-static*] [*count-dynamic*] [*count-others*] [*count-throttle*] [*count-total*] [**TABLE_vrf** *vrf-name-out* [**TABLE_afi** *afi count* [**TABLE_adj** *intf-out ip-addr-out* [*phy-intf*] *mac pref owner* [*pkt-count*] [*byte-count*] [*is-best*] [*is-thrtld*]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
adjacency	Display adjacency table
interface	Type: interface Display specific interface adjacencies only
ip-addr	Type: ipaddr IPV4 source address
detail	Show detail information of adjacency entries
summary	Show adjacency summary
non-best	Show both best/non-best entries
throttle	Throttle
statistics	Show adjacency statistics
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Show adjacency entries for all vrfs

__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
invalid_pkt_cnt	Type: uinteger
invalid_byte_cnt	Type: uinteger
global_drop_pkt_cnt	Type: uinteger
global_drop_byte_cnt	Type: uinteger
global_punt_pkt_cnt	Type: uinteger
global_punt_byte_cnt	Type: uinteger
global_glean_pkt_cnt	Type: uinteger
global_glean_byte_cnt	Type: uinteger
glean_pkt_cnt	Type: uinteger
glean_byte_cnt	Type: uinteger
normal_pkt_cnt	Type: uinteger
normal_byte_cnt	Type: uinteger
last_updated	Type: string
count-static	Type: uinteger
count-dynamic	Type: uinteger
count-others	Type: uinteger
count-throttle	Type: uinteger
count-total	Type: uinteger
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
count	Type: uinteger
TABLE_adj	

intf-out	Type: string
phy-intf	Type: string
ip-addr-out	Type: ipaddr
mac	Type: ethernet
pref	Type: uinteger
owner	Type: string
pkt-count	Type: uinteger
byte-count	Type: uinteger
is-best	Type: string
is-thrtld	Type: string

Command Modes

- /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-thrtld-incomplete*] [*cnt-unknown*] [*cnt-total*] [**TABLE_adj** *intf-out ip-addr-out* [*time-stamp*] *mac* [*phy-intf*] [*unknown*] [*incomplete*]]]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
summary	Display ARP adjacency summary
detail	Display detailed information
sync-entries	Display ARP table learnt only due to arp table sync
fhrp-non-active-learn	Display ARP table learnt only due to request for non-active FHRP address
interface	Type: interface ARP interface
ip-address	Type: ipaddr IP address
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display ARP entries for all vrfs
static	Display Static ARP entries
__readonly__	

TABLE_vrf	
vrf-name-out	Type: string
cnt-resolved	Type: uinteger
cnt-incomplete	Type: uinteger
cnt-thrtld-incomplete	Type: uinteger
cnt-unknown	Type: uinteger
cnt-total	Type: uinteger
TABLE_adj	
intf-out	Type: string
ip-addr-out	Type: ipaddr
time-stamp	Type: string
mac	Type: ethernet
phy-intf	Type: string
unknown	Type: bool
incomplete	Type: bool

Command Modes

- /exec

show ip arp cache

show ip arp cache {{**brief**| **detail**}| **interface** [*intf*]} **[operational]**

Syntax Description

show	Show running system information
ip	Display IP information
arp	arp
cache	Display ip arp cache
interface	Display ip arp related interface information
brief	Display summary of arp interface status and configuration
detail	Display detailed information of arp interface status and configuration
operational	Display only interfaces that are administratively enabled
intf	Type: interface Interface name to display

Command Modes

- /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
__readonly__	
arp-clients	Type: longlong
TABLE_arp_client_list	
arp-cli-uuid	Type: integer
l2-client-type	Type: string
client-flg	Type: integer
mts-addr-sap	Type: longlong
cli-msg-cnt	Type: longlong
l2-cli-func-name	Type: string
l2-cli-dbg-func	Type: string
l2-cli-dbg-un-init-func	Type: string

Command Modes

- /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 is_static_acl 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 *Not available in this release.*
__readonly__	
src_mac_valid	Type: uinteger
dest_mac_valid	Type: uinteger
ip_addr_valid	Type: uinteger
TABLE_entry	
active_vlan_id	Type: vlan
is_insp_enabled	**enabled value: 1** **disabled value: 0**
oper_state	**active value: 1** **inactive value: 0**
acl_name	Type: string
is_static_acl	**static value: 1** **non-static value: 0**

acl_logging	**deny value: 1** **permit value: 2**
dhcp_logging	**deny value: 1** **permit value: 2**
req_fwded	Type: long
res_fwded	Type: long
req_dropped	Type: long
res_dropped	Type: long
dhcp_drops	Type: long
acl_drops	Type: long
dhcp_permits	Type: long
acl_permits	Type: long
req_smac_fails	Type: long
res_smac_fails	Type: long
res_dmac_fails	Type: long
req_ip_fails	Type: long
res_ip_fails	Type: long

Command Modes

- /exec

show ip arp inspection interfaces

show ip arp inspection interfaces [*intf1*] [**__readonly__ TABLE_intf** *intf_header 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 *Not available in this release.*
interfaces	Trsut status of all interfaces
intf1	Type: interface interface
__readonly__	
TABLE_intf	
intf_header	Type: uinteger
intf2	Type: interface
trust_state	**trusted value: 1** **untrusted value: 0**

Command Modes

- /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 *Not available in this release.*
log	Log Buffer
__readonly__	
log_buff_size	Type: uinteger
log_rate_entries	Type: uinteger
log_rate_interval	Type: uinteger
log_frame	Type: string

Command Modes

- /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 *Not available in this release.*
statistics	Status of ARP Inspection
vlan	Selected vlan range
vlan-range	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
__readonly__	
TABLE_stats	
vlanid	Type: vlan
req_fwded	Type: long
res_fwded	Type: long
req_dropped	Type: long
res_dropped	Type: long
dhcp_drops	Type: long
acl_drops	Type: long
dhcp_permits	Type: long
acl_permits	Type: long
req_smac_fails	Type: long
res_smac_fails	Type: long
res_dmac_fails	Type: long

req_ip_fails	Type: long
res_ip_fails	Type: long

Command Modes

- /exec

show ip arp inspection vlan

show ip arp inspection vlan *vlan-range* [**__readonly__** *src_mac_valid dest_mac_valid ip_addr_valid* **TABLE_vlan** *active_vlan_id is_insp_enabled oper_state acl_name is_static_acl acl_logging dhcp_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 *Not available in this release.*
vlan	Selected vlan range
vlan-range	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
__readonly__	
src_mac_valid	Type: uinteger
dest_mac_valid	Type: uinteger
ip_addr_valid	Type: uinteger
TABLE_vlan	
active_vlan_id	Type: vlan
is_insp_enabled	**enabled value: 1** **disabled value: 0**
oper_state	**active value: 1** **inactive value: 0**
acl_name	Type: string
is_static_acl	**static value: 1** **non-static value: 0**

acl_logging	**deny value: 1** **permit value: 2**
dhcp_logging	**deny value: 1** **permit value: 2**

Command Modes

- /exec

show ip arp off-list

show ip arp off-list [**vlan** *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	Vlan id
vlan-id	Type: integer Show information for specified vlan
__readonly__	
offlist-vlan-id	Type: integer
vlan-adj-cnt	Type: integer
arp-sync-adj-cnt	Type: integer
TABLE_arp_vlan_list	
adj-vlan-id	Type: integer
off-adj-ip-addr	Type: ipaddr
time-stamp	Type: string
arp-mac-addr	Type: string
off-adj-flags	Type: integer

Command Modes

- /exec

show ip arp snmp pttree

show ip arp snmp pttree {**static**| **dynamic**| **virtual**| **typeall**} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
snmp	Show only snmp pttree
pttree	Patricia tree
static	show only static adjacencies in pt tree
dynamic	show only dynamic adjacencies in pt tree
virtual	show only virtual adjacencies in pt tree
typeall	show all adjacencies in pt tree
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display ARP statistics for all vrfs

Command Modes

- /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-mbuf-fail tx-ctxt-not-crtd 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 tx-invalid-local-proxy tx-invalid-proxy tx-vip-not-active tx-multiple-vip-for-proxy rx-total rx-req rx-reply rx-req-l2 rx-reply-l2 rx-proxy rx-local-proxy rx-tunnel rx-fastpath rx-snoop rx-drop bad-if bad-len invalid-prot invalid-ctxt ctxt-not-crtd 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 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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display ARP statistics for all vrfs
interface-all	Display ARP statistics for all interface
interface	Type: interface ARP interface
__readonly__	
TABLE_vrf	
vrf-name-out1	Type: string
TABLE_stat	

tx-total	Type: uinteger
tx-req	Type: uinteger
tx-reply	Type: uinteger
tx-req-l2	Type: uinteger
tx-reply-l2	Type: uinteger
tx-grat	Type: uinteger
tx-tunnel	Type: uinteger
tx-drop	Type: uinteger
tx-mbuf-fail	Type: uinteger
tx-ctxt-not-crtd	Type: uinteger
tx-bad-ctxt-id	Type: uinteger
tx-invalid-ifindex	Type: uinteger
tx-invalid-sip	Type: uinteger
tx-invalid-dip	Type: uinteger
tx-own-ip	Type: uinteger
tx-unattached-ip	Type: uinteger
tx-adj-create-fail	Type: uinteger
tx-null-sip	Type: uinteger
tx-null-smac	Type: uinteger
tx-client-enq-fail	Type: uinteger
tx-dest-unreachable	Type: uinteger
tx-invalid-local-proxy	Type: uinteger
tx-invalid-proxy	Type: uinteger
tx-vip-not-active	Type: uinteger
tx-multiple-vip-for-proxy	Type: uinteger
rx-total	Type: uinteger

rx-req	Type: uinteger
rx-reply	Type: uinteger
rx-req-l2	Type: uinteger
rx-reply-l2	Type: uinteger
rx-proxy	Type: uinteger
rx-local-proxy	Type: uinteger
rx-tunnel	Type: uinteger
rx-fastpath	Type: uinteger
rx-snoop	Type: uinteger
rx-drop	Type: uinteger
bad-if	Type: uinteger
bad-len	Type: uinteger
invalid-prot	Type: uinteger
invalid-ctxt	Type: uinteger
ctxt-not-crtd	Type: uinteger
invalid-l2	Type: uinteger
invalid-l3	Type: uinteger
invalid-sip	Type: uinteger
our-sip	Type: uinteger
arp-if-no-mem	Type: uinteger
subnet-mismatch	Type: uinteger
dir-bcast	Type: uinteger
invalid-dip	Type: uinteger
non-local-dst	Type: uinteger
non-active-fhrp	Type: uinteger
invalid-smac	Type: uinteger

our-smac	Type: uinteger
not-init	Type: uinteger
l2-prxy-en	Type: uinteger
l2-port-untrusted	Type: uinteger
stdby-fhrp-vip	Type: uinteger
grat-prxy-en	Type: uinteger
arp-req-ignore	Type: uinteger
l2-intf	Type: uinteger
l2fm-query-fail	Type: uinteger
tunnel_fail	Type: uinteger
adds	Type: uinteger
dels	Type: uinteger
timeouts	Type: uinteger

Command Modes

- /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-mcec*] [*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*]]

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__	
TABLE_ip_arp_tunnel_stat	ARP Tunnel stats
arp-tun-pkt-rcv-cnt	Type: integer
arp-tun-pkt-rcv-ing-vpc	Type: integer
arp-tun-pkt-rcv-ing-gpc	Type: integer
arp-tun-pkt-rcv-ing-orp-vpc	Type: integer
arp-tun-pkt-rcv-ing-orp-vpc-pl	Type: integer
arp-tun-pkt-snd-cnt	Type: integer
arp-tun-pkt-snd-snoop-cnt	Type: integer
arp-tun-pkt-snd-non-local-vip-cnt	Type: integer
arp-tun-pkt-snd-peer-gate-cnt	Type: integer
arp-tun-pkt-snd-ing-vpc	Type: integer
arp-tun-pkt-snd-ing-gpc	Type: integer

arp-tun-pkt-snd-ing-orp-vpc	Type: integer
arp-tun-pkt-snd-ing-orp-vpc-pl	Type: integer
arp-tun-pkt-rcv-drp-cnt	Type: integer
arp-tun-pkt-snd-drp-cnt	Type: integer
arp-tun-pkt-snd-drp-snd-fail-cnt	Type: integer
arp-tun-pkt-rcv-drp-ver-cnt	Type: integer
arp-tun-pkt-rcv-drp-pl-cnt	Type: integer
arp-tun-pkt-rcv-drp-ing-non-mct	Type: integer
arp-tun-pkt-rcv-drp-inv-ing-intf	Type: integer
arp-tun-pkt-snd-drp-inv-ing-intf	Type: integer
arp-tun-pkt-rcvdrp-inv-gpc-core-sw	Type: integer
arp-tun-pkt-rcvdrp-inv-gpc-peer-sw	Type: integer
arp-tun-pkt-drp-inv-mcec	Type: integer
arp-tun-pkt-im-api-fail	Type: integer
arp-tun-pkt-drp-ctxt-inv	Type: integer
arp-tun-pkt-drp-mct-dwn	Type: integer
arp-tun-pkt-rcv-drp-mbuf-op-fail	Type: integer
arp-tun-pkt-snd-drp-mbuf-op-fail	Type: integer
arp-tun-pkt-snd-drp-tunnel	Type: integer
arp-tun-pkt-snd-drp-ce	Type: integer
arp-tun-pkt-snd-drp-inv-gpc	Type: integer
arp-tun-pkt-rcv-drp-inv-gpc	Type: integer

Command Modes

- /exec

show ip arp vaddr

show ip arp vaddr

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vaddr	Display VADDR ARP table

Command Modes

- /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-disabe*] [*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-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-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-vipadd*] [*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-add-adj*] [*arp-del-adj*] [*arp-adj-already-exist*]]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vpc-statistics	Show vPC global statistics
__readonly__	
TABLE_arp_vpc_stats	Arp Vpc statistics
arp-pro-drp-pull-disable	Type: integer
arp-pro-drp-push-msg-disable	Type: integer
arp-pro-ign-snd-pull-disabe	Type: integer
arp-ign-snd-push-disable	Type: integer
arp-drp-im-fail	Type: integer
arp-drp-mcecm-fail	Type: integer
arp-drp-invalid-pc-iod	Type: integer
arp-drp-pt-lookup-fail	Type: integer
arp-drp-resp-fail-no-mct	Type: integer
arp-drp-resp-fail	Type: integer
arp-resp-sent	Type: integer
arp-resp-recvd	Type: integer

arp-resp-recv-err	Type: integer
arp-rcvd-msg	Type: integer
arp-send-fail	Type: integer
arp-cfs-rel-dlvry-fail	Type: integer
arp-cfs-rel-dnvry-suc	Type: integer
arp-drp-pt-add-fail	Type: integer
arp-drp-no-mem	Type: integer
arp-drp-tmr-cre-fail	Type: integer
arp-drp-add-adj-fail	Type: integer
arp-off-drp-pt-lookup-fail	Type: integer
arp-dont-drp-vlan-mismat	Type: integer
arp-drp-svi-invalid	Type: integer
arp-dont-drop-sv-down	Type: integer
arp-drp-mct-down	Type: integer
arp-drp-ctxt-invalid	Type: integer
arp-drp-vrf-invalid	Type: integer
arp-drp-l3addr-invalid	Type: integer
arp-drp-l3addr-sanity-fail	Type: integer
arp-drp-mac-sanity-fail	Type: integer
arp-own-rtr-mac	Type: integer
arp-drp-own-ipaddr	Type: integer
arp-drp-own-vipadd	Type: integer
arp-drp-adj-fail	Type: integer
arp-drp-subnet-mismatch	Type: integer
arp-drp-adj-exist	Type: integer
arp-dont-drp-ip-not-enable	Type: integer

arp-drp-total-cnt	Type: integer
arp-dont-drop-total-cnt	Type: integer
arp-add-adj	Type: integer
arp-del-adj	Type: integer
arp-adj-already-exist	Type: integer

Command Modes

- /exec

show ip as-path-access-list

show ip as-path-access-list [*aspl-name*| *aspl-cfg-name*] [**__readonly__ TABLE_aspl** *name action rule*]

Syntax Description

show	Show running system information
ip	Display IP information
as-path-access-list	List AS path access lists
aspl-name	Type: string pattern: [!-~]* length: 63 AS path access list name
aspl-cfg-name	Type: string Known as-path access-list name
__readonly__	
TABLE_aspl	
name	Type: string
action	Type: string
rule	Type: string

Command Modes

- /exec

show ip cache

show ip cache {{**brief**| **detail**}| **interface** [*intf*]} **[operational]**

Syntax Description

show	Show running system information
ip	Display IP information
cache	Display ip cache
brief	Display summary of ip interface status and configuration
detail	Display detailed information of ip interface status and configuration
operational	Display only interfaces that are administratively enabled
interface	Display ip related interface information
intf	Type: interface Interface name to display

Command Modes

- /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
client-name	Type: string Display information for a single IP client
__readonly__	
TABLE_ip_clnt	
TABLE_clnt	
clnt-name	Type: string
clnt-uuid	Type: integer
clnt-pid	Type: integer
clnt-ext-pid	Type: integer
clnt-proto	Type: integer
clnt-ind	Type: integer
clnt-cntxt-id	Type: longlong
clnt-mts-sap	Type: integer
clnt-flg	Type: hex
clnt-msg-succ-cnt	Type: integer
clnt-msg-fail-cnt	Type: integer
clnt-recv-fn-name	Type: string
clnt-recv-fn	Type: hex

Command Modes

- /exec

show ip 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	Display BGP information for IPv4 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
all	Display BGP information for all address families
community	Display routes matching the BGP communities
regexp-str	Type: string Regular expression to match the communities
comm-id	Type: community BGP community value

wellknown-id	BGP wellknown community **no-export value: 1** Do not export to next AS (well-known community) **no-advertise value: 2** Do not advertise to any peer (well-known community) **no-export-subconfed value: 3** Do not send outside local AS (well known community) **internet value: 4** Internet (well-known community)
exact-match	Exact match of the communities

Command Modes

- /exec

show ip community-list

show ip community-list [*cl_name*] [**__readonly__ TABLE_cl** *name action rule*]

Syntax Description

show	Show running system information
ip	Display IP information
community-list	List community-list
cl_name	Type: string pattern: [!-~]* length: 63 Standard or expanded community-list name
__readonly__	
TABLE_cl	
name	Type: string
action	Type: string
rule	Type: string

Command Modes

- /exec

show ip 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
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	Display BGP information for IPv4 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
regexp-str	Type: string Regular expression to match the AS paths

Command Modes

- /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_unknown_pkt pkts_dropped_relay_disable pkts_dropped_no_binding_entry pkts_dropped_interface_error pkts_dropped_max_hops_exceeded*]

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
__readonly__	Read only
pkts_processed	Type: uinteger
pkts_recvd_through_cfsoe	Type: uinteger
pkts_fwded	Type: uinteger
pkts_cfsoe_fwded	Type: uinteger
pkts_dropped	Type: uinteger
pkts_dropped_from_untrusted_ports	Type: uinteger
pkts_dropped_src_mac_chk_fail	Type: uinteger
pkts_dropped_opt82_ins_fail	Type: uinteger
pkts_dropped_unknown_op_intf	Type: uinteger
pkts_dropped_unknown_pkt	Type: uinteger
pkts_dropped_no_trust_inf	Type: uinteger
pkts_dropped_relay_disable	Type: uinteger
pkts_dropped_no_binding_entry	Type: uinteger
pkts_dropped_interface_error	Type: uinteger
pkts_dropped_max_hops_exceeded	Type: uinteger

Command Modes

- /exec

show ip dhcp relay

show ip dhcp relay [**__readonly__** *relay_service_enable relay_opt82_enable relay_subopt_VPN_enable relay_subopt_type_cisco_enable global_smart-relay_enable relay_address_hdr* **TABLE_intf** *intf relay_address vrf_name smart_relay_enabled_intfs subnet_bcast_enabled_intfs*]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
relay	DHCP relay
__readonly__	Read only
relay_service_enable	**enabled value: 1** **disabled value: 0**
relay_opt82_enable	**enabled value: 1** **disabled value: 0**
relay_subopt_VPN_enable	**enabled value: 1** **disabled value: 0**
relay_subopt_type_cisco_enable	**enabled value: 1** **disabled value: 0**
global_smart-relay_enable	**enabled value: 1** **disabled value: 0**
relay_address_hdr	Type: uinteger
TABLE_intf	

intf	Type: interface interface name
relay_address	Type: ipaddr helper address
vrf_name	Type: string length: 32 vrf name
smart_relay_enabled_intfs	Type: string smart-relay enabled interfaces
subnet_bcast_enabled_intfs	Type: string subnet_bcast enabled interfaces

Command Modes

- /exec

show ip dhcp relay address

show ip dhcp relay address [**interface** *intf-range*] [**__readonly__ TABLE_intf** *intf_header 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	DHCP relay address of the interface
intf-range	Type: interface-mrange interface
__readonly__	Read only
TABLE_intf	
intf_header	Type: uinteger
intf2	Type: interface interface name
relay_address	Type: ipaddr helper address
vrf_name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name

Command Modes

- /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_total total_tx_pkts total_rx_pkts total_drops line l3_fwd_hdr l3_fwd_tx_pkts l3_fwd_rx_pkts l3_fwd_drops server_consolidated_hdr server_total_request server_total_response server_req_hdr server_resp_hdr server_helper_addr server_vrf server_discover server_request server_decline server_release server_inform server_offer server_ack server_nack drop_hdr drop_opt82_insert_fail drop_unknown_op_intf drop_unknown drop_malformed drop_relay_disable drop_intf_err drop_tx_sock_err drop_tx_fail_client_intf drop_l3_unknown_op_intf drop_max_hops drop_invalid_msg_type drop_validation_fail non_dhcp_hdr non_dhcp_tx_pkts non_dhcp_rx_pkts non_dhcp_drops 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	input interface
intf	Type: interface interface
serverip	Helper address
ip-addr-val	Type: ipaddr IP address
use-vrf	helper address VRF membership
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf length: 32 VRF name
__readonly__	Read only
msg_stats_hdr	Type: uinteger
msg_type_str	Type: string

tx_pkts	Type: uinteger
rx_pkts	Type: uinteger
drops	Type: uinteger
msg_type_str_total	Type: uinteger
total_tx_pkts	Type: uinteger
total_rx_pkts	Type: uinteger
total_drops	Type: uinteger
line	Type: uinteger
l3_fwd_hdr	Type: uinteger
l3_fwd_tx_pkts	Type: uinteger
l3_fwd_rx_pkts	Type: uinteger
l3_fwd_drops	Type: uinteger
server_consolidated_hdr	Type: uinteger
server_total_request	Type: uinteger
server_total_response	Type: uinteger
server_req_hdr	Type: uinteger
server_resp_hdr	Type: uinteger
server_helper_addr	Type: uinteger
server_vrf	Type: string
server_discover	Type: uinteger
server_request	Type: uinteger
server_decline	Type: uinteger
server_release	Type: uinteger
server_inform	Type: uinteger
server_offer	Type: uinteger
server_ack	Type: uinteger

server_nack	Type: uinteger
drop_hdr	Type: uinteger
drop_opt82_insert_fail	Type: uinteger
drop_unknown_op_intf	Type: uinteger
drop_unknown	Type: uinteger
drop_malformed	Type: uinteger
drop_relay_disable	Type: uinteger
drop_intf_err	Type: uinteger
drop_max_hops	Type: uinteger
drop_tx_sock_err	Type: uinteger
drop_tx_fail_client_intf	Type: uinteger
drop_l3_unknown_op_intf	Type: uinteger
drop_invalid_msg_type	Type: uinteger
drop_validation_fail	Type: uinteger
non_dhcp_hdr	Type: uinteger
non_dhcp_tx_pkts	Type: uinteger
non_dhcp_rx_pkts	Type: uinteger
non_dhcp_drops	Type: uinteger
footer	Type: uinteger

Command Modes

- /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 *Not available in this release.*
__readonly__	Read only
snoop_service_enable	**enabled value: 1** **disabled value: 0**
snoop_gbl_enable	**enabled value: 1** **disabled value: 0**
snoop_vlan_enable	Type: bitmap
snoop_oper_vlan_enable	Type: bitmap
snoop_opt82_enable	**enabled value: 1** **disabled value: 0**
snoop_hwaddr_verify_enable	**enabled value: 1** **disabled value: 0**
snoop_hdr	Type: uinteger
TABLE_intf_entry	
intf_entry_if_index	Type: interface

intf_entry_trust_dhcp	**trusted value: 1** **untrusted value: 0**
intf_entry_pkt_limit	Type: uinteger

Command Modes

- /exec

show ip dhcp snooping binding

show ip dhcp snooping binding [*ip*| *mac*| **vlan** *vlan-range*| **interface** *intf*]+ [**dynamic**| **static**] [**__readonly__** *bind_num_entries bind_hdr* **TABLE_bind_entry** *bind_vlan bind_mac bind_ipaddr bind_lease bind_type bind_intf*]

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
ip	Type: ipaddr Binding entry IP address
mac	Type: ethernet Binding entry MAC address
vlan	Binding entry VLAN
vlan-range	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
interface	Binding entry input interface
intf	Type: interface interface
dynamic	Dynamic entries
static	Static entries
__readonly__	Read only
bind_num_entries	Type: uinteger
bind_hdr	Type: uinteger
TABLE_bind_entry	
bind_vlan	Type: vlan
bind_mac	Type: ethernet

bind_ipaddr	Type: ipaddr
bind_lease	Type: uinteger
bind_type	Type: uinteger
bind_intf	Type: interface

Command Modes

- /exec

show ip dhcp snooping statistics

show ip dhcp snooping statistics [**vlan** *vlan-id* **interface** *intf*| **vlan** *vlan-id*] [**__readonly__** *msg_stats_hdr msg_type_str tx_pkts rx_pkts drops msg_type_str_total total_tx_pkts total_rx_pkts total_drops line cfs_hdr cfs_tx_pkts cfs_rx_pkts mct_hdr mct_tx_pkts mct_rx_pkts l2_fwd_hdr l2_fwd_tx_pkts l2_fwd_rx_pkts l2_fwd_drops drop_hdr drop_untrust drop_src_mac_chk_fail drop_opt82_insert_fail drop_unknown_op_intf drop_unknown drop_tx_trusted_port_fail drop_no_trusted_port drop_vlan_validation_fail drop_malformed drop_nobinding drop_intf_err drop_max_hops drop_invalid_msg_type drop_invalid_dhcp_discover_with_ip drop_validation_fail non_dhcp_hdr non_dhcp_tx_pkts non_dhcp_rx_pkts non_dhcp_drops*]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
snooping	DHCP snooping *Not available in this release.*
statistics	Statistics related to DHCP
vlan	VLAN
vlan-id	Type: vlan VLAN id
interface	input interface
intf	Type: interface interface
__readonly__	Read only
msg_stats_hdr	Type: uinteger
msg_type_str	Type: string
tx_pkts	Type: uinteger
rx_pkts	Type: uinteger
drops	Type: uinteger
msg_type_str_total	Type: uinteger
total_tx_pkts	Type: uinteger
total_rx_pkts	Type: uinteger

total_drops	Type: uinteger
line	Type: uinteger
cfs_hdr	Type: uinteger
cfs_tx_pkts	Type: uinteger
cfs_rx_pkts	Type: uinteger
mct_hdr	Type: uinteger
mct_tx_pkts	Type: uinteger
mct_rx_pkts	Type: uinteger
l2_fwd_hdr	Type: uinteger
l2_fwd_tx_pkts	Type: uinteger
l2_fwd_rx_pkts	Type: uinteger
l2_fwd_drops	Type: uinteger
drop_hdr	Type: uinteger
drop_untrust	Type: uinteger
drop_src_mac_chk_fail	Type: uinteger
drop_invalid_dhcp_discover_with_ip	Type: uinteger
drop_opt82_insert_fail	Type: uinteger
drop_unknown_op_intf	Type: uinteger
drop_unknown	Type: uinteger
drop_tx_trusted_port_fail	Type: uinteger
drop_no_trusted_port	Type: uinteger
drop_vlan_validation_fail	Type: uinteger
drop_malformed	Type: uinteger
drop_nobinding	Type: uinteger
drop_intf_err	Type: uinteger
drop_max_hops	Type: uinteger

drop_invalid_msg_type	Type: uinteger
drop_validation_fail	Type: uinteger
non_dhcp_hdr	Type: uinteger
non_dhcp_tx_pkts	Type: uinteger
non_dhcp_rx_pkts	Type: uinteger
non_dhcp_drops	Type: uinteger

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
__readonly__	
TABLE_ipdnsvrf	source interface of dns given vrf
vrfname	Type: string vrfname
ifname	Type: string ifname

Command Modes

- /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__	
TABLE_ipdns	source interface of dns
vrfname	Type: string vrfname
ifname	Type: string ifname

Command Modes

- /exec

show ip eigrp route-map statistics redistribute

show ip eigrp [*eigrp-ptag*] **route-map statistics redistribute** {**bgp** *as*| {**eigrp**| **isis**| **ospf**| **rip**} *tag*| **static**| **direct**| **amt**| **lisp**} [**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
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)

as	Type: asn Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Type: string Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes
__readonly__	
TABLE_asn	
asn	Type: uinteger
TABLE_vrf	
vrf	Type: string
TABLE_rmap	
name	Type: string
action	Type: string
seq_num	Type: uinteger
TABLE_cmd	
command	Type: string
compare_count	Type: uinteger
match_count	Type: uinteger
total_accept_count	Type: uinteger
total_reject_count	Type: uinteger

Command Modes

- /exec

show ip 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** {*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
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	Display BGP information for IPv4 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
all	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

regexp-str	Type: string Regular expression to match the extcommunities
ext-comm-gen-trans	Type: community Extcommunity number aa4:nn format
ext-comm-gen-nontrans	Type: community Extcommunity number aa4:nn format
exact-match	Exact match of the extcommunities

Command Modes

- /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
extcl_name	Type: string pattern: [!-~]* length: 63 Standard or expanded community-list name
__readonly__	
TABLE_extcl	
name	Type: string
action	Type: string
rule	Type: string

Command Modes

- /exec

show ip fib adjacency

show ip fib adjacency [*aif*] [*anh*] [**module** *module*] [**__readonly__** *adj-count nexthop rewinfo interface*]

Syntax Description

show	
ip	ipv4
fib	display fib information
adjacency	display adjacency information
aif	Type: interface adjacency output interface
anh	Type: ipaddr adjacency next hop
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
adj-count	Type: integer total adj count
nexthop	Type: ipaddr next hop address
rewinfo	Type: string rewrite information
interface	Type: interface output interface

Command Modes

- /exec

show ip fib distribution

show ip fib distribution [**pauz**| **rezum**]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution information
pauz	start black-holing routes
rezum	stop black-holing routes

Command Modes

- /exec

show ip fib distribution capture

show ip fib distribution capture [**__readonly__** *type len data*]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
capture	unicast capture buffer
__readonly__	
type	Type: integer type
len	Type: integer length
data	Type: string raw data

Command Modes

- /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__	
id	Type: integer client identifier
pid	Type: integer client pid
name	Type: string client name
shms	Type: hex shmem start
shme	Type: hex shmem end
shmn	Type: string shmem name

Command Modes

- /exec

show ip fib distribution mroute

show ip fib distribution mroute [{*group*| *gprefix*} [*source*]] [**table** *id*] [**__readonly__** *table_name src_len grp_len df_ordinal rpfif rpf_ifname flag flag_value num_groups num_sources refcount oiflist_id oif_count oif_name oif_ifindex bytecnt pktcnt*]

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
mroute	MFDM IP multicast routing table
group	Type: ipaddr IPv4 Multicast Group Address
gprefix	Type: ipprefix IPv4 Multicast Group Prefix
source	Type: ipaddr IPv4 Source Address
table	Specify Multicast Routing Table
id	Type: integer Multicast Routing Table Identifier
__readonly__	
table_name	Type: string Table name
src_len	Type: integer Source Address Mask
grp_len	Type: integer Group address Mask
df_ordinal	Type: integer DF ordinal

rpfif	Type: string RPF interface
rpf_ifname	Type: string RPF Interface ifName
flag	Type: string Route type flag
flag_value	Type: hex hex value of route flag
num_groups	Type: integer Number of group entries in the table
num_sources	Type: integer Number of (S, G) entries for the group address
refcount	Type: integer Reference Count
oiflist_id	Type: integer OIF list Identifier
oif_count	Type: integer Number of OIFs
oif_name	Type: string OIF Name
oif_ifindex	Type: hex OIF ifIndex
bytecnt	Type: longlong Current Byte counter
pktcnt	Type: longlong Current Packet counter

Command Modes

- /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	Outstanding Message Information
__readonly__	
fibstate	Type: string IP Multicast FIB process state
slot	Type: integer Slot
accepting_routes	Type: string Indicates whether FIB is accepting routes
num_accepting_routes	Type: integer Number of fibs accepting routes

Command Modes

- /exec

show ip fib distribution multicast outgoing-interface-list

show ip fib distribution multicast outgoing-interface-list {**L2**| **L3**| **OTV**} [*index*] [**__readonly__** *platform_index ref_count num_oif oif*]

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
outgoing-interface-list	Outgoing interface list
L2	Layer 2 oiflist
L3	Layer 3 oiflist
OTV	OTV oiflist
index	Type: integer min: 1 max: 65535 Outgoing Interface List index
__readonly__	
platform_index	Type: hex Platform index
ref_count	Type: integer Reference count
num_oif	Type: integer Number of outgoing interfaces
oif	Type: string OIF name

Command Modes

- /exec

show ip fib distribution state

show ip fib distribution state [**__readonly__** *slot known ar rcnt state*]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
state	unicast fib state info
__readonly__	
slot	Type: integer slot number
known	Type: string heard from - yes/no
ar	Type: string accepting routes - yes/no
rcnt	Type: integer total route count
state	Type: string fib state

Command Modes

- /exec

show ip fib interfaces

show ip fib interfaces [**module** *module*] [**__readonly__** *intf v4adjcnt v6adjcnt rpfmode*]

Syntax Description

show	
ip	ipv4
fib	fib information
interfaces	show fib interface info
__readonly__	
intf	Type: interface interface name
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
v4adjcnt	Type: integer count of v4 adjacencies
v6adjcnt	Type: integer count of v6 adjacencies
rpfmode	uRPF mode **none value: 1** **loose(def) value: 2** **loose value: 3** **strict value: 4**

Command Modes

- /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	ipv4
fib	Display fib information
mroute	Multicast IPv4 routes
group	Type: ipaddr Multicast IPv4 Group Address
gprefix	Type: ipprefix Multicast IPv4 Group Prefix
source	Type: ipaddr Multicast IPv4 Source Address
table	display info per vpn-id
table-id	Type: integer table-id
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
table_type	Type: string Table Type
num_groups	Type: integer Number of group entries in the table
num_sources	Type: integer Number of (S, G) entries for the group address

src_len	Type: integer Source Address Mask
grp_len	Type: integer Group address Mask
df_ordinal	Type: string DF ordinal
rpfif	Type: string RPF interface
rpf_ifindex	Type: hex RPF Interface ifIndex
flag	Type: string Route type flag
flag_value	Type: hex hex value of route flag
route_pkts	Type: longlong Route packet count
route_bytes	Type: longlong Route bytes
oiflist_id	Type: integer OIF list Identifier
platform_id	Type: integer Platform-index
oif_count	Type: integer Number of OIFs
refcount	Type: integer OIF list Reference Count
oifname	Type: string OIF Interface name
oifindex	Type: hex OIF Interface ifIndex

oif_pkts	Type: longlong OIF packets
oif_bytes	Type: longlong OIF bytes

Command Modes

- /exec

show ip fib mroute txlist

show ip fib mroute txlist [**module** *module*]

Syntax Description

show	
ip	ipv4
fib	display fib information
mroute	display IP mcast routing table
txlist	display routes in the txlist
module	slot *Available only in the 9500 series.*
module	Type: integer slot number

Command Modes

- /exec

show ip fib route

show ip fib route [**vrf** {*vrf-name*| *vrf-known-name*| **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*| **all**}]+ [**__readonly__** *header vrfname tableid prefix-count pfx* {*nexthop*| *special*} *intf route-count path-count mask-length routes-per-mask*]

Syntax Description

show	
ip	ipv4
fib	display fib information
route	display IP routing table
vrf	display info per VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
table	display info per vpn-id
table_id	Type: integer table number
summary	display route counts
prefix	Type: ipprefix display single exact match route
longer-prefixes	display longer prefixes
address	Type: ipaddr display single longest match route
interface	display routes with this output i/f only

interface	Type: interface output interface
next-hop	display routes with this next-hop only
nh	Type: ipaddr next hop address
attached	display directly connected routes
unresolved	display unresolved routes
adjacency	display routes via specified adjacency
aif	Type: interface adjacency output interface
anh	Type: ipaddr adjacency next-hop address
drop	display routes via drop adjacency
glean	display routes via glean adjacency
punt	display routes via punt adjacency
module	slot *Available only in the 9500 series.*
module	Type: integer slot number
__readonly__	
header	Type: string header string
vrfname	Type: string VRF name
tableid	Type: integer table identifier
prefix-count	Type: integer total number of prefix in VRF
pfx	Type: ipprefix ipv4 prefix

nexthop	Type: ipaddr next hop address
special	special adjacencies **Attached value: 1** **Receive value: 2** **Drop value: 3**
intf	Type: interface output interface
route-count	Type: integer total number of routes in VRF
path-count	Type: integer total number of paths in VRF
mask-length	Type: integer length of mask
routes-per-mask	Type: integer

Command Modes

- /exec

show ip 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
flap-statistics	Display route flap statistics
ip-prefix	Type: ipprefix Display flap statistics for one prefix
ip-addr	Type: ipaddr Display flap statistics for one network
ip-mask	Type: ipaddr Network mask
ipv4	Display BGP information for IPv4 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

Command Modes

- /exec

show ip ftm statistics

show ip ftm statistics

Syntax Description

show	Show running system information
ip	Display IP information
ftm	FTM API
statistics	Statistics

Command Modes

- /exec

show ip igmp

show ip igmp {**groups**| **route**} [*source* [*group*]| *group* [*source*]] [*interface*] **[summary]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **[summary-old]** [**__readonly__ TABLE_vrf** *vrf if-name group-addr entry-count restart-count* **TABLE_group** *group-addr if-name uptime expires reporter static-oif local-group* **TABLE_source** *source-addr if-name uptime expires reporter static-oif local-group translated*]

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
group	Type: ipaddr Multicast IP address of single group to display
source	Type: ipaddr Source IP address
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
interface	Type: interface Display group membership on single interface name
summary	Display group summary
summary-old	Display group summary
__readonly__	

TABLE_vrf	
vrf	Type: vrf
if-name	Type: interface
group-addr	Type: ipaddr
entry-count	Type: uinteger
restart-count	Type: uinteger
TABLE_group	
uptime	Type: duration
expires	Type: duration
static-oif	Type: bool
local-group	Type: bool
reporter	Type: ipaddr
TABLE_source	
source-addr	Type: ipaddr
translated	Type: bool

Command Modes

- /exec

show ip igmp interfaceshow ip igmp interface

show ip igmp interface *interface* **[detail]**| **show ip igmp interface [brief]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_vrf** *vrf entry-count* **TABLE_if** *if-name if-status ip-sum addr querier q-ver next-query expires mc ver host-ver qi cqi mrt cmrt sqi csqi sqc lmmrt lmqc gt cgt qt cqt uri rv crv rll rc v1rr v2qs v2qr v2rs v2rr v2ls v2lr v3qs v3qr v3rs v3rr cse v2gqdest v3gqdest ple lsip scf qnq rvm qvm uit v1gdam v2gdam v3dai ra static-group-map join-group-map il*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
interface	Display IGMP interface related information
detail	Display detailed information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
interface	Type: interface Interface name of single interface to display
brief	Display one line status per interface
__readonly__	
TABLE_vrf	
vrf	Type: vrf
entry-count	Type: uinteger
TABLE_if	

if-name	Type: interface
if-status	Type: string
ip-sum	Type: string
addr	Type: ipaddr
querier	Type: ipaddr
q-ver	Type: string
next-query	Type: string
expires	Type: string
mc	Type: uinteger
ver	Type: uinteger
host-ver	Type: uinteger
qi	Type: uinteger
cqi	Type: uinteger
mrt	Type: uinteger
cmrt	Type: uinteger
sqi	Type: uinteger
csqi	Type: uinteger
sqc	Type: uinteger
lmmrt	Type: uinteger
lmqc	Type: uinteger
gt	Type: uinteger
cgt	Type: uinteger
qt	Type: uinteger
cqt	Type: uinteger
uri	Type: uinteger
rv	Type: uinteger

crv	Type: uinteger
rll	Type: bool
rc	Type: uinteger
v1rr	Type: uinteger
v2qs	Type: uinteger
v2qr	Type: uinteger
v2rs	Type: uinteger
v2rr	Type: uinteger
v2ls	Type: uinteger
v2lr	Type: uinteger
v3qs	Type: uinteger
v3qr	Type: uinteger
v3rs	Type: uinteger
v3rr	Type: uinteger
v2gqdest	Type: uinteger
v3gqdest	Type: uinteger
cse	Type: uinteger
ple	Type: uinteger
lsip	Type: uinteger
scf	Type: uinteger
qnq	Type: uinteger
rvm	Type: uinteger
qvm	Type: uinteger
uit	Type: uinteger
v1gdam	Type: uinteger
v2gdam	Type: uinteger

v3dai	Type: uinteger
ra	Type: uinteger
static-group-map	Type: string
join-group-map	Type: string
il	Type: bool

Command Modes

- /exec

show ip igmp local-groups

show ip igmp 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
ip	Display IP information
igmp	Display IGMP status and configuration
local-groups	Display IGMP local group membership information
interface	Type: interface Display group membership on single interface name
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
vrf	Type: vrf
TABLE_entry	
group-addr	Type: ipaddr
source-addr	Type: ipaddr
static-oif	Type: bool
local-group	Type: bool
if-name	Type: interface

last-reported	Type: duration

Command Modes

- /exec

show ip igmp policy statistics reports

show ip igmp policy statistics reports [*interface*]

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
interface	Type: interface Interface to display statistics for

Command Modes

- /exec

show ip igmp snooping

show ip igmp snooping [**vlan** *vlan*| **bridge-domain** *bdid*] [**__readonly__** *vdc enabled grepsup gv3repsup glinklocalgrpsup rle* **TABLE_vlan** *vlan-id* [*description*] [*snoop-on qa qv qi qlmqi rv sq sqr eht fl repsup v3repsup vlinklocalgrpsup rpc gc actvports lkupmode*]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
vlan	Display VLAN IGMP snooping membership information
vlan	Type: vlan Specify VLAN
bridge-domain	Display BD IGMP snooping membership information
bdid	Type: integer Specify BD
__readonly__	
vdc	Type: uinteger
enabled	Type: bool
grepsup	Type: bool
gv3repsup	Type: bool
glinklocalgrpsup	Type: bool
rle	Type: bool
TABLE_vlan	
vlan-id	Type: integer
description	Type: string description, if any
snoop-on	Type: bool
qa	Type: ipaddr

qv	Type: uinteger
qi	Type: uinteger
qlmqi	Type: uinteger
rv	Type: uinteger
sq	Type: bool
sqr	Type: bool
eht	Type: bool
fl	Type: bool
repsup	Type: bool
v3repsup	Type: bool
vlinklocalgrpsup	Type: bool
rpc	Type: uinteger
gc	Type: uinteger
actvports	Type: interface
lkupmode	Type: bool

Command Modes

- /exec
- /exec

show ip igmp snooping explicit-tracking

show ip igmp snooping explicit-tracking [**vlan** *vlan*] [**__readonly__ TABLE_vlan** *vlan-id grp-addr src-addr if-name host-addr uptime last-join expires*] **[detail]**

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
explicit-tracking	Display explicit-tracking database for IGMPv3
vlan	Display Vlan explicit-tracking database
detail	Display detail info regarding host and vPC
vlan	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_vlan	
vlan-id	Type: integer
grp-addr	Type: ipaddr
src-addr	Type: ipaddr
if-name	Type: interface
host-addr	Type: ipaddr
uptime	Type: duration
last-join	Type: duration
expires	Type: duration

Command Modes

- /exec

show ip igmp snooping groups

show ip igmp snooping [otv] groups [*source* [*group*]| *group* [*source*]] [**vlan** *vlan*] **[detail] [summary]** [**__readonly__ TABLE_vlan** *vlan-id rports rtrPortFlag oifs* **TABLE_port** *if-name* **TABLE_rtrports** *rport-if-name raddr* **TABLE_source** *source* **TABLE_group** *addr ver raddr rsf js g-mfdm old-host g-vpc static dynamic snoop-enabled omf-enabled group-count s-g-count* **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* **TABLE_source** *source srsf s-mfdm s-vpc src-static src-dynamic* **TABLE_src_static_ports** *src-static-if-name* **TABLE_src_dynamic** *dyn-if-name src-uptime src-expires*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	IGMP Snooping OTV information
groups	Display snooping information for group address
summary	Display snooping group summary
group	Type: ipaddr Multicast IP address of single group to display
source	Type: ipaddr Source IP address
vlan	Display VLAN/BD IGMP snooping membership information
vlan	Type: vlan Specify VLAN/BD
detail	Display detailed information for the group
__readonly__	
TABLE_vlan	
vlan-id	Type: integer
rports	Type: bool
rtrPortFlag	Type: bool

oifs	Type: bool
TABLE_port	
if-name	Type: interface
TABLE_rtrports	
rport-if-name	Type: interface
raddr	Type: ipaddr
TABLE_group	
addr	Type: ipaddr
ver	Type: uinteger
raddr	Type: ipaddr
TABLE_source	
source	Type: ipaddr
rsf	Type: bool
js	Type: integer
g-mfdm	Type: bool
old-host	Type: duration
g-vpc	Type: bool
static	Type: bool
dynamic	Type: bool
snoop-enabled	Type: string
omf-enabled	Type: string
group-count	Type: uinteger
s-g-count	Type: uinteger
TABLE_static_ports	
static-if-name	Type: interface
TABLE_v2_ports	
v2-if-name	Type: interface
uptime	Type: duration

expires	Type: duration
gq-missed	Type: integer
TABLE_star_g_ports	
star-g-if-name	Type: interface
uptime	Type: duration
expires	Type: duration
TABLE_source	
source	Type: ipaddr
srsf	Type: bool
s-mfdm	Type: bool
s-vpc	Type: bool
src-static	Type: bool
src-dynamic	Type: bool
TABLE_src_static_ports	
src-static-if-name	Type: interface
TABLE_src_dynamic	
dyn-if-name	Type: interface
src-uptime	Type: duration
src-expires	Type: duration

Command Modes

- /exec

show ip igmp snooping lookup-mode

show ip igmp snooping lookup-mode [**vlan** *vlan*] [**__readonly__ TABLE_global** *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	Display VLAN/BD information
vlan	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_global	
configured	Type: string
operational	Type: string
TABLE_vlan	
vlan-id	Type: uinteger
lookup	Type: string

Command Modes

- /exec

show ip igmp snooping mac-oif

show ip igmp snooping mac-oif [**vlan** *vlan*] **[detail]** [**__readonly__** *totaloif* **TABLE_vlan** *vlan-id count mac-addr 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	Display VLAN/BD information
vlan	Type: vlan Specify VLAN/BD
detail	static mac oif detail, M2RIB oif info
__readonly__	
totaloif	Type: integer
TABLE_vlan	
vlan-id	Type: integer
count	Type: integer
mac-addr	Type: ethernet
oifs	Type: interface

Command Modes

- /exec

show ip igmp snooping mrouter

show ip igmp snooping mrouter [otv] [**vlan** *vlan*] **[detail]** [**__readonly__ TABLE_vlan** *vlan-id* **TABLE_intf** *if-name type uptime expires static dynamic internal vpc*]

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	IGMP Snooping OTV information
vlan	Display VLAN/BD multicast router information
vlan	Type: vlan Specify VLAN/BD
detail	Display detailed mrouter information
__readonly__	
TABLE_vlan	
vlan-id	Type: integer
TABLE_intf	
if-name	Type: interface
type	Type: string
uptime	Type: duration
expires	Type: duration
static	Type: bool
dynamic	Type: bool
internal	Type: bool
vpc	Type: bool

Command Modes

- /exec

show ip igmp snooping otv vlan brief

show ip igmp snooping otv 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
otv	IGMP Snooping OTV information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	
vlan-id	Type: integer

Command Modes

- /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__	
vlan-id	Type: integer

Command Modes

- /exec

show ip igmp snooping querier

show ip igmp snooping querier [**vlan** *vlan*] **[detail]** [**__readonly__ TABLE_vlan** *vlan-id qa ver expires qv qiod int qname*]

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	Display VLAN/BD IGMP snooping querier information
vlan	Type: vlan Specify VLAN/BD
detail	Display detailed information
__readonly__	
TABLE_vlan	
vlan-id	Type: integer
qa	Type: ipaddr
ver	Type: uinteger
expires	Type: duration
qv	Type: string
qiod	Type: interface
qname	Type: string
int	Type: bool

Command Modes

- /exec

show ip igmp snooping snmp mib adminMode

show ip igmp snooping snmp mib adminMode [**__readonly__** *cisAdminMode*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
adminMode	Indicates the administrative snooping mode of IGMP Snooping feature
__readonly__	Read Only
cisAdminMode	Type: integer mib object cisAdminMode

Command Modes

- /exec

show ip igmp snooping snmp mib aliasingMode

show ip igmp snooping snmp mib aliasingMode [**__readonly__** *cisAddressAliasingMode*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
aliasingMode	Indicates the current IGMP Address Aliasing Mode of the device
__readonly__	Read Only
cisAddressAliasingMode	Type: integer mib object cisAddressAliasingMode

Command Modes

- /exec

show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus

show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus [**__readonly__** *cisV3ProcessEnabledOperStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
cisV3ProcessEnableOperStatus	Indicates the current operational status of IGMP v3 processing in the system
__readonly__	Read Only
cisV3ProcessEnabledOperStatus	Type: integer mib object cisV3ProcessEnabledOperStatus

Command Modes

- /exec

show ip igmp snooping snmp mib explicitTrackingTable

show ip igmp snooping snmp mib explicitTrackingTable [**vlan** *cisVlanIndex-in*] [**__readonly__ TABLE_cisVlanExplicitTrackingTable** *cisVlanIndex-out cisVlanExplicitTrackingEnabled cisVlanExplicitTrackingLimit*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
explicitTrackingTable	Show mib table cisVlanExplicitTrackingTable
vlan	Display VLAN/BD IGMP snooping membership information
cisVlanIndex-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisVlanExplicitTrackingTable	
cisVlanIndex-out	Type: integer mib table index cisVlanIndex
cisVlanExplicitTrackingEnabled	Type: integer mib object cisVlanExplicitTrackingEnabled
cisVlanExplicitTrackingLimit	Type: integer mib object cisVlanExplicitTrackingLimit

Command Modes

- /exec

show ip igmp snooping snmp mib fallBackTime

show ip igmp snooping snmp mib fallBackTime [**__readonly__** *cisFallbackTime*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fallBackTime	Indicates the time the IGMP address aliasing mode is fallback
__readonly__	Read Only
cisFallbackTime	Type: integer mib object cisFallbackTime

Command Modes

- /exec

show ip igmp snooping snmp mib fastBlockEnabled

show ip igmp snooping snmp mib fastBlockEnabled [**__readonly__** *cisFastBlockEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fastBlockEnabled	Indicates whether Fast-Block mechanism has been enabled for the system
__readonly__	Read Only
cisFastBlockEnabled	Type: integer mib object cisFastBlockEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib fastleaveenabled

show ip igmp snooping snmp mib fastleaveenabled [**__readonly__** *cisFastLeaveEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fastleaveenabled	Check if fastleave is enabled
__readonly__	Read Only
cisFastLeaveEnabled	Type: integer mib object cisFastLeaveEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib filterStatsTable

show ip igmp snooping snmp mib filterStatsTable [**interface** *ifIndex-in* **vlan** *cisFilterStatsVlanNumber-in*] [**__readonly__ TABLE_cisFilterStatsTable** *ifIndex-out cisFilterStatsVlanNumber-out cisFilterAccessGroupDenied cisFilterLimitDenied cisFilterTotalLimitDenied cisFilterMinVersionDenied*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
filterStatsTable	Display VLAN/BD Filter Group
interface	Display interface
ifIndex-in	Type: integer Interface Index
vlan	Display Interface access group VLAN/BD information
cisFilterStatsVlanNumber-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisFilterStatsTable	
ifIndex-out	Type: integer mib table index ifIndex
cisFilterStatsVlanNumber-out	Type: string mib table index cisFilterStatsVlanNumber
cisFilterAccessGroupDenied	Type: uinteger mib object cisFilterAccessGroupDenied
cisFilterLimitDenied	Type: string mib object cisFilterLimitDenied

cisFilterTotalLimitDenied	Type: uinteger mib object cisFilterTotalLimitDenied
cisFilterMinVersionDenied	Type: uinteger mib object cisFilterMinVersionDenied

Command Modes

- /exec

show ip igmp snooping snmp mib ifAccessGroupTable

show ip igmp snooping snmp mib ifAccessGroupTable [**interface** *ifIndex-in* **vlan** *cisIfAccessGroupVlan-in*] [**__readonly__ TABLE_cisIfAccessGroupTable** *ifIndex-out cisIfAccessGroupVlan-out cisIfAccessGroupsChannelsAllowed cisIfAccessGroupStorageType cisIfAccessGroupRowStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifAccessGroupTable	Display interface access group
interface	Display interface
ifIndex-in	Type: interface Interface Index
vlan	Display Interface access group VLAN/BD information
cisIfAccessGroupVlan-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisIfAccessGroupTable	
ifIndex-out	Type: integer mib table index ifIndex
cisIfAccessGroupVlan-out	Type: integer mib table index cisIfAccessGroupVlan
cisIfAccessGroupsChannelsAllowed	Type: uinteger mib object cisIfAccessGroupsChannelsAllowed
cisIfAccessGroupStorageType	Type: string mib object cisIfAccessGroupStorageType

cisIfAccessGroupRowStatus	Type: integer mib object cisIfAccessGroupRowStatus

Command Modes

- /exec

show ip igmp snooping snmp mib ifConfigTable

show ip igmp snooping snmp mib ifConfigTable [**interface** *ifIndex-in*] [**__readonly__ TABLE_cisIfConfigTable** *ifIndex-out cisIfTopoChangeFloodEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifConfigTable	Display interface configuration
interface	Display interface
ifIndex-in	Type: interface Interface Index
__readonly__	
TABLE_cisIfConfigTable	
ifIndex-out	Type: integer mib table index ifIndex
cisIfTopoChangeFloodEnabled	Type: integer mib object cisIfTopoChangeFloodEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib ifLimitTable

show ip igmp snooping snmp mib ifLimitTable [**interface** *ifIndex-in* **vlan** *cisIfLimitVlanNumber-in*] [**__readonly__ TABLE_cisIfLimitTable** *ifIndex-out cisIfLimitVlanNumber-out cisIfLimitMax cisIfLimitExcludeAccessGrp cisIfLimitStorageType cisIfLimitRowStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTable	Display interface configuration
interface	Display interface
ifIndex-in	Type: interface Interface Index
vlan	Display Interface Limit VLAN/BD informaition
cisIfLimitVlanNumber-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisIfLimitTable	
ifIndex-out	Type: integer mib table index ifIndex
cisIfLimitVlanNumber-out	Type: integer mib table index cisIfLimitVlanNumber
cisIfLimitMax	Type: uinteger mib object cisIfLimitMax
cisIfLimitExcludeAccessGrp	Type: string mib object cisIfLimitExcludeAccessGrp

cisIfLimitStorageType	Type: integer mib object cisIfLimitStorageType
cisIfLimitRowStatus	Type: integer mib object cisIfLimitRowStatus

Command Modes

- /exec

show ip igmp snooping snmp mib ifLimitTotalTable

show ip igmp snooping snmp mib ifLimitTotalTable [**interface** *ifIndex-in*] [**__readonly__ TABLE_cisIfLimitTotalTable** *ifIndex-out cisIfLimitTotalLimitMax cisIfLimitTotalExcludeAccessGrp cisIfLimitTotalStorageType cisIfLimitTotalRowStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTotalTable	Display interface configuration
interface	Display interface
ifIndex-in	Type: interface Interface Index
__readonly__	
TABLE_cisIfLimitTotalTable	
ifIndex-out	Type: integer mib table index ifIndex
cisIfLimitTotalLimitMax	Type: uinteger mib object cisIfLimitTotalLimitMax
cisIfLimitTotalExcludeAccessGrp	Type: string mib object cisIfLimitTotalExcludeAccessGrp
cisIfLimitTotalStorageType	Type: integer mib object cisIfLimitTotalStorageType
cisIfLimitTotalRowStatus	Type: integer mib object cisIfLimitTotalRowStatus

Command Modes

- /exec

show ip igmp snooping snmp mib igmpsnoopingenabled

show ip igmp snooping snmp mib igmpsnoopingenabled [**__readonly__** *cisIgmpSnoopingEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
igmpsnoopingenabled	Check if IGMP snooping is enabled
__readonly__	Read Only
cisIgmpSnoopingEnabled	Type: integer mib object cisIgmpSnoopingEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib iterfaceStatsTable

show ip igmp snooping snmp mib iterfaceStatsTable [**interface** *ifIndex-in*] [**__readonly__ TABLE_cisInterfaceStatsTable** *ifIndex-out cisTxGeneralQueries cisTxGroupSpecificQueries cisTxReports cisTxLeaves cisRxGeneralQueries cisRxGroupSpecificQueries cisRxReports cisRxLeaves cisRxValidPackets cisRxInvalidPackets cisRxOtherPackets cisRxMACGeneralQueries cisRxTopoNotifications cisV3Allows cisV3Blocks cisV3IsIncluded cisV3IsExcluded cisV3ToIncluded cisV3ToExcluded*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
iterfaceStatsTable	Display interface stats
interface	Display interface information
ifIndex-in	Type: interface Interface Index
__readonly__	
TABLE_cisInterfaceStatsTable	
ifIndex-out	Type: integer mib table index ifIndex
cisTxGeneralQueries	Type: uinteger mib object cisTxGeneralQueries
cisTxGroupSpecificQueries	Type: uinteger mib object cisTxGroupSpecificQueries
cisTxReports	Type: uinteger mib object cisTxReports
cisTxLeaves	Type: uinteger mib object cisTxLeaves

cisRxGeneralQueries	Type: uinteger mib object cisRxGeneralQueries
cisRxGroupSpecificQueries	Type: uinteger mib object cisRxGroupSpecificQueries
cisRxReports	Type: uinteger mib object cisRxReports
cisRxLeaves	Type: uinteger mib object cisRxLeaves
cisRxValidPackets	Type: uinteger mib object cisRxValidPackets
cisRxInvalidPackets	Type: uinteger mib object cisRxInvalidPackets
cisRxOtherPackets	Type: uinteger mib object cisRxOtherPackets
cisRxMACGeneralQueries	Type: uinteger mib object cisRxMACGeneralQueries
cisRxTopoNotifications	Type: uinteger mib object cisRxTopoNotifications
cisV3Allows	Type: uinteger mib object cisV3Allows
cisV3Blocks	Type: uinteger mib object cisV3Blocks
cisV3IsIncluded	Type: uinteger mib object cisV3IsIncluded
cisV3IsExcluded	Type: uinteger mib object cisV3IsExcluded
cisV3ToIncluded	Type: uinteger mib object cisV3ToIncluded
cisV3ToExcluded	Type: uinteger mib object cisV3ToExcluded

Command Modes

- /exec

show ip igmp snooping snmp mib lastMemeberQueryCount

show ip igmp snooping snmp mib lastMemeberQueryCount [**__readonly__** *cisLastMemberQueryCount*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
lastMemeberQueryCount	Specifies the Last Member Query Count value of this device
__readonly__	Read Only
cisLastMemberQueryCount	Type: integer mib object cisLastMemberQueryCount

Command Modes

- /exec

show ip igmp snooping snmp mib lastMemeberQueryInterval

show ip igmp snooping snmp mib lastMemeberQueryInterval [**__readonly__** *cisLastMemberQueryInterval*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
lastMemeberQueryInterval	Specifies the IGMP Last Member Query Interval of this device
__readonly__	Read Only
cisLastMemberQueryInterval	Type: integer mib object cisLastMemberQueryInterval

Command Modes

- /exec

show ip igmp snooping snmp mib leaveQueryType

show ip igmp snooping snmp mib leaveQueryType [**__readonly__** *cisLeaveQueryType*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
leaveQueryType	Indicates type of leave query
__readonly__	Read Only
cisLeaveQueryType	Type: integer mib object cisLeaveQueryType

Command Modes

- /exec

show ip igmp snooping snmp mib mcastGroupTable

show ip igmp snooping snmp mib mcastGroupTable [**vlan** *cisMcastGroupVlanIndex-in cisMcastGroupAddressType-in cisMcastGroupAddress-in*] [**__readonly__ TABLE_cisMcastGroupTable** *cisMcastGroupVlanIndex-out cisMcastGroupAddressType-out cisMcastGroupAddress-out cisMcastGroupFilterMode cisMcastGroupIgmpVersion cisMcastGroupIncludeHostCount cisMcastGroupExcludeHostCount cisMcastGroupPortList*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastGroupTable	Show mib table cisMcastGroupTable
vlan	Display VLAN/BD IGMP snooping membership information
cisMcastGroupVlanIndex-in	Type: vlan Specify VLAN/BD
cisMcastGroupAddressType-in	Type: integer Address type
cisMcastGroupAddress-in	Type: ipaddr Group address
__readonly__	
TABLE_cisMcastGroupTable	
cisMcastGroupVlanIndex-out	Type: integer mib table index cisMcastGroupVlanIndex
cisMcastGroupAddressType-out	Type: integer mib table index cisMcastGroupAddressType
cisMcastGroupAddress-out	Type: ipaddr mib table index cisMcastGroupAddress

cisMcastGroupFilterMode	Type: integer mib object cisMcastGroupFilterMode
cisMcastGroupIgmpVersion	Type: integer mib object cisMcastGroupIgmpVersion
cisMcastGroupIncludeHostCount	Type: uinteger mib object cisMcastGroupIncludeHostCount
cisMcastGroupExcludeHostCount	Type: uinteger mib object cisMcastGroupExcludeHostCount
cisMcastGroupPortList	Type: string mib object cisMcastGroupPortList

Command Modes

- /exec

show ip igmp snooping snmp mib mcastRouterCfgTable

show ip igmp snooping snmp mib mcastRouterCfgTable [**interface** *ifIndex-in* **vlan** *cisMcastRouterVlanIndex-in*] [**__readonly__ TABLE_cisMcastRouterCfgTable** *ifIndex-out cisMcastRouterVlanIndex-out cisMcastRouterType cisMcastRouterRowStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterCfgTable	show mib table cisMcastRouterCfgTable
interface	Display Mcast Router Interface Information
ifIndex-in	Type: integer Specify the Mcast router interface
vlan	Display VLAN/BD IGMP snooping membership information
cisMcastRouterVlanIndex-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisMcastRouterCfgTable	
ifIndex-out	Type: integer mib table index ifIndex
cisMcastRouterVlanIndex-out	Type: integer mib table index cisMcastRouterVlanIndex
cisMcastRouterType	Type: integer mib object cisMcastRouterType
cisMcastRouterRowStatus	Type: integer mib object cisMcastRouterRowStatus

Command Modes

- /exec

show ip igmp snooping snmp mib mcastRouterConfigTable

show ip igmp snooping snmp mib mcastRouterConfigTable [**vlan** *cisMcastRouterConfigVlanIndex-in* **interface** *ifIndex-in*] [**__readonly__ TABLE_cisMcastRouterConfigTable** *ifIndex-out cisMcastRouterConfigVlanIndex-out cisMcastRouterConfigRouterType cisMcastRouterConfigStorageType cisMcastRouterConfigRowStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterConfigTable	show mib table cisMcastRouterConfigTable
vlan	Display VLAN/BD IGMP snooping membership information
cisMcastRouterConfigVlanIndex-in	Type: vlan Specify VLAN/BD
interface	Display Mcast Router Interface Information
ifIndex-in	Type: integer Specify the Mcast router interface index
__readonly__	
TABLE_cisMcastRouterConfigTable	
cisMcastRouterConfigVlanIndex-out	Type: integer mib table index cisMcastRouterConfigVlanIndex
ifIndex-out	Type: integer mib table index ifIndex
cisMcastRouterConfigRouterType	Type: integer mib object cisMcastRouterConfigRouterType
cisMcastRouterConfigStorageType	Type: integer mib object cisMcastRouterConfigStorageType

cisMcastRouterConfigRowStatus	Type: integer mib object cisMcastRouterConfigRowStatus

Command Modes

- /exec

show ip igmp snooping snmp mib multicastGroupConfigTable

show ip igmp snooping snmp mib multicastGroupConfigTable [**vlan** *cisMulticastGroupConfVlanIndex-in cisMulticastGroupConfCeVlanIndex-in cisMulticastGroupConfAddressType-in cisMulticastGroupConfAddress-in cisMulticastGroupConfSourceAddress-in cisMulticastGroupConfPortRange-in*] [**__readonly__ TABLE_cisMulticastGroupConfigTable** *cisMulticastGroupConfVlanIndex-out cisMulticastGroupConfCeVlanIndex-out cisMulticastGroupConfAddressType-out cisMulticastGroupConfAddress-out cisMulticastGroupConfSourceAddress-out cisMulticastGroupConfPortRange-out cisMulticastGroupConfPortList cisMulticastGroupConfStorageType cisMulticastGroupConfRowStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupConfigTable	show mib table cisMulticastGroupConfigTable
vlan	Display VLAN/BD IGMP snooping membership information
cisMulticastGroupConfVlanIndex-in	Type: vlan Specify VLAN/BD
cisMulticastGroupConfCeVlanIndex-in	Type: vlan Specify consumer edge VLAN/BD
cisMulticastGroupConfAddressType-in	Type: integer min: 0 max: 4 Group Address Type
cisMulticastGroupConfAddress-in	Type: ipaddr Group address
cisMulticastGroupConfSourceAddress-in	Type: ipaddr source address

cisMulticastGroupConfPortRange-in	Type: integer port Range
__readonly__	
TABLE_cisMulticastGroupConfigTable	
cisMulticastGroupConfVlanIndex-out	Type: integer mib table index cisMulticastGroupConfVlanIndex
cisMulticastGroupConfCeVlanIndex-out	Type: integer mib table index cisMulticastGroupConfCeVlanIndex
cisMulticastGroupConfAddressType-out	Type: integer mib table index cisMulticastGroupConfAddressType
cisMulticastGroupConfAddress-out	Type: ipaddr mib table index cisMulticastGroupConfAddress
cisMulticastGroupConfSourceAddress-out	Type: ipaddr mib table index cisMulticastGroupConfSourceAddress
cisMulticastGroupConfPortRange-out	Type: integer mib table index cisMulticastGroupConfPortRange
cisMulticastGroupConfPortList	Type: string mib object cisMulticastGroupConfPortList
cisMulticastGroupConfStorageType	Type: uinteger mib object cisMulticastGroupConfStorageType
cisMulticastGroupConfRowStatus	Type: uinteger mib object index cisMulticastGroupConfRowStatus

Command Modes

- /exec

show ip igmp snooping snmp mib multicastGroupPortListTable

show ip igmp snooping snmp mib multicastGroupPortListTable [**vlan** *cisMulticastGroupVlanIndex-in cisMulticastGroupCeVlanIndex-in cisMulticastGroupAddressType-in cisMulticastGroupAddress-in cisMulticastGroupSourceAddress-in cisMulticastGroupPortRangeIndex-in*] [**__readonly__ TABLE_cisMulticastGroupPortListTable** *cisMulticastGroupVlanIndex-out cisMulticastGroupCeVlanIndex-out cisMulticastGroupAddressType-out cisMulticastGroupAddress-out cisMulticastGroupSourceAddress-out cisMulticastGroupPortRangeIndex-out cisMulticastGroupPortList*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupPortListTable	show mib table multicastGroupPortListTable
vlan	Display VLAN/BD IGMP snooping membership information
cisMulticastGroupVlanIndex-in	Type: vlan Specify VLAN/BD
cisMulticastGroupCeVlanIndex-in	Type: vlan Specify consumer edge VLAN/BD
cisMulticastGroupAddressType-in	Type: integer min: 0 max: 4 Group Address Type
cisMulticastGroupAddress-in	Type: ipaddr Group address
cisMulticastGroupSourceAddress-in	Type: ipaddr source address
cisMulticastGroupPortRangeIndex-in	Type: integer port Range Index

__readonly__	
TABLE_cisMulticastGroupPortListTable	
cisMulticastGroupVlanIndex-out	Type: integer mib table index cisMulticastGroupVlanIndex
cisMulticastGroupCeVlanIndex-out	Type: integer mib table index cisMulticastGroupCeVlanIndex
cisMulticastGroupAddressType-out	Type: integer mib table index cisMulticastGroupAddressType
cisMulticastGroupAddress-out	Type: ipaddr mib table index cisMulticastGroupAddress
cisMulticastGroupSourceAddress-out	Type: ipaddr mib table index cisMulticastGroupSourceAddress
cisMulticastGroupPortRangeIndex-out	Type: integer mib table index cisMulticastGroupPortRangeIndex
cisMulticastGroupPortList	Type: string mib object cisMulticastGroupPortList

Command Modes

- /exec

show ip igmp snooping snmp mib multicastGroupTable

show ip igmp snooping snmp mib multicastGroupTable [**vlan** *cisMulticastGroupVlanIndex-in cisMulticastGroupCeVlanIndex-in cisMulticastGroupAddressType-in cisMulticastGroupAddress-in cisMulticastGroupSourceAddress-in*] [**__readonly__ TABLE_cisMulticastGroupTable** *cisMulticastGroupVlanIndex-out cisMulticastGroupCeVlanIndex-out cisMulticastGroupAddressType-out cisMulticastGroupAddress-out cisMulticastGroupSourceAddress-out cisMulticastGroupGroupType cisMulticastGroupIgmpVersion cisMulticastGroupSourceUpTime cisMulticastGroupSourceExpires cisMulticastGroupInclHostCount cisMulticastGroupExclHostCount*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupTable	show mib table multicastGroupTable
vlan	Display VLAN/BD IGMP snooping membership information
cisMulticastGroupVlanIndex-in	Type: vlan Specify VLAN/BD
cisMulticastGroupCeVlanIndex-in	Type: vlan Specify consumer edge VLAN/BD
cisMulticastGroupAddressType-in	Type: integer min: 0 max: 4 Group Address Type
cisMulticastGroupAddress-in	Type: ipaddr Group address
cisMulticastGroupSourceAddress-in	Type: ipaddr Source address
__readonly__	
TABLE_cisMulticastGroupTable	

cisMulticastGroupVlanIndex-out	Type: integer mib table index cisMulticastGroupVlanIndex
cisMulticastGroupCeVlanIndex-out	Type: integer mib table index cisMulticastGroupCeVlanIndex
cisMulticastGroupAddressType-out	Type: integer mib table index cisMulticastGroupAddressType
cisMulticastGroupAddress-out	Type: ipaddr mib table index cisMulticastGroupAddress
cisMulticastGroupSourceAddress-out	Type: ipaddr mib table index cisMulticastGroupSourceAddress
cisMulticastGroupGroupType	Type: integer mib object cisMulticastGroupGroupType
cisMulticastGroupIgmpVersion	Type: string mib object cisMulticastGroupIgmpVersion
cisMulticastGroupSourceUpTime	Type: duration mib object cisMulticastGroupSourceUpTime
cisMulticastGroupSourceExpires	Type: duration mib object cisMulticastGroupSourceExpires
cisMulticastGroupInclHostCount	Type: uinteger mib object cisMulticastGroupInclHostCount
cisMulticastGroupExclHostCount	Type: uinteger mib object cisMulticastGroupExclHostCount

Command Modes

- /exec

show ip igmp snooping snmp mib operMode

show ip igmp snooping snmp mib operMode [**__readonly__** *cisOperMode*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
operMode	Indicates the operational snooping mode of the device
__readonly__	Read Only
cisOperMode	Type: integer mib object cisOperMode

Command Modes

- /exec

show ip igmp snooping snmp mib querierTable

show ip igmp snooping snmp mib querierTable [**vlan** *cisIgmpQuerierVlanIndex-in*] [**__readonly__ TABLE_cisIgmpQuerierTable** *cisIgmpQuerierVlanIndex-out cisIgmpQuerierEnabled cisIgmpQuerierState cisIgmpQuerierVersion cisIgmpQuerierAddressType cisIgmpQuerierAddress cisIgmpQuerierInterface cisIgmpQuerierTcnQueryCount cisIgmpQuerierTcnQueryInterval cisIgmpQuerierTimerExpiry cisIgmpQuerierMaxResponseTime cisIgmpQuerierQueryInterval cisIgmpQuerierAdminAddressType cisIgmpQuerierAdminAddress cisIgmpQuerierAdminVersion cisIgmpQuerierTcnQueryPending*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
querierTable	Show mib table cisIgmpQuerierTable
vlan	Display VLAN/BD IGMP snooping membership information
cisIgmpQuerierVlanIndex-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisIgmpQuerierTable	
cisIgmpQuerierVlanIndex-out	Type: integer mib table index cisIgmpQuerierVlanIndex
cisIgmpQuerierEnabled	Type: integer mib object cisIgmpQuerierEnabled
cisIgmpQuerierState	Type: integer mib object cisIgmpQuerierState
cisIgmpQuerierVersion	Type: integer mib object cisIgmpQuerierVersion
cisIgmpQuerierAddressType	Type: integer mib object cisIgmpQuerierAddressType

cisIgmpQuerierAddress	Type: ipaddr mib object cisIgmpQuerierAddress
cisIgmpQuerierInterface	Type: uinteger mib object cisIgmpQuerierInterface
cisIgmpQuerierTcnQueryCount	Type: uinteger mib object cisIgmpQuerierTcnQueryCount
cisIgmpQuerierTcnQueryInterval	Type: uinteger mib object cisIgmpQuerierTcnQueryInterval
cisIgmpQuerierTimerExpiry	Type: uinteger mib object cisIgmpQuerierTimerExpiry
cisIgmpQuerierMaxResponseTime	Type: uinteger mib object cisIgmpQuerierMaxResponseTime
cisIgmpQuerierQueryInterval	Type: uinteger mib object cisIgmpQuerierQueryInterval
cisIgmpQuerierAdminAddressType	Type: integer mib object cisIgmpQuerierAdminAddressType
cisIgmpQuerierAdminAddress	Type: ipaddr mib object cisIgmpQuerierAdminAddress
cisIgmpQuerierAdminVersion	Type: integer mib object cisIgmpQuerierAdminVersion
cisIgmpQuerierTcnQueryPending	Type: uinteger mib object cisIgmpQuerierTcnQueryPending

Command Modes

- /exec

show ip igmp snooping snmp mib reportsuppressionenabled

show ip igmp snooping snmp mib reportsuppressionenabled [**__readonly__** *cisReportSuppressionEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
reportsuppressionenabled	Check if reportsuppression is enabled
__readonly__	Read Only
cisReportSuppressionEnabled	Type: integer mib object cisReportSuppressionEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib robustnessVariable

show ip igmp snooping snmp mib robustnessVariable [**__readonly__** *cisRobustnessVariable*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
robustnessVariable	Specifies the Robustness Variable of this device
__readonly__	Read Only
cisRobustnessVariable	Type: integer mib object cisRobustnessVariable

Command Modes

- /exec

show ip igmp snooping snmp mib routerAlertCheckEnabled

show ip igmp snooping snmp mib routerAlertCheckEnabled [**__readonly__** *cisLastMemberQueryCount*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
routerAlertCheckEnabled	Specifies whether checking of Router-Alert option is enabled for IGMP traffic in the system
__readonly__	Read Only
cisLastMemberQueryCount	Type: integer mib object cisLastMemberQueryCount

Command Modes

- /exec

show ip igmp snooping snmp mib sourceOnlyEntryAgingTime

show ip igmp snooping snmp mib sourceOnlyEntryAgingTime [**__readonly__** *cisSourceOnlyEntryAgingTime*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyEntryAgingTime	Specifies the aging time in seconds for Source Only multicast entries
__readonly__	Read Only
cisSourceOnlyEntryAgingTime	Type: integer mib object cisSourceOnlyEntryAgingTime

Command Modes

- /exec

show ip igmp snooping snmp mib sourceOnlyLearningEnabled

show ip igmp snooping snmp mib sourceOnlyLearningEnabled [**__readonly__** *cisSourceOnlyLearningEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyLearningEnabled	Specifies whether Source Only multicast entries are learned by IGMP Snooping or not
__readonly__	Read Only
cisSourceOnlyLearningEnabled	Type: integer mib object cisSourceOnlyLearningEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib tcnFloodQueryCount

show ip igmp snooping snmp mib tcnFloodQueryCount [**__readonly__** *cisTopoChangeFloodQueryCount*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
tcnFloodQueryCount	Specifies the flooding period for multicast traffic upon receiving Topology Change Notifications
__readonly__	Read Only
cisTopoChangeFloodQueryCount	Type: integer mib object cisTopoChangeFloodQueryCount

Command Modes

- /exec

show ip igmp snooping snmp mib timeToLiveCheckEnabled

show ip igmp snooping snmp mib timeToLiveCheckEnabled [**__readonly__** *cisTimeToLiveCheckEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
timeToLiveCheckEnabled	Specifies whether Time-To-Live (TTL) check is enabled when processing IGMP packets in the system
__readonly__	Read Only
cisTimeToLiveCheckEnabled	Type: integer mib object cisTimeToLiveCheckEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib topoChanageQuerySolicitEnabled

show ip igmp snooping snmp mib topoChanageQuerySolicitEnabled [**__readonly__** *cisTopoChangeQuerySolicitEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
topoChanageQuerySolicitEnabled	Specifies whether the device running IGMP Snooping will solicit IGMP General Queries from the Querier upon receiving a TCN
__readonly__	Read Only
cisTopoChangeQuerySolicitEnabled	Type: integer mib object cisTopoChangeQuerySolicitEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus

show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus [**__readonly__** *cisV3ProcessEnabledAdminStatus*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
v3ProcessEnabledAdminStatus	Indicates the administrative status of IGMP v3 processing in the system
__readonly__	Read Only
cisV3ProcessEnabledAdminStatus	Type: integer mib object cisV3ProcessEnabledAdminStatus

Command Modes

- /exec

show ip igmp snooping snmp mib v3SnoopingSupport

show ip igmp snooping snmp mib v3SnoopingSupport [**__readonly__** *cisV3SnoopingSupport*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
v3SnoopingSupport	Indicates IGMP Snooping support for IGMPv3
__readonly__	Read Only
cisV3SnoopingSupport	Type: integer mib object cisV3SnoopingSupport

Command Modes

- /exec

show ip igmp snooping snmp mib vlanconfigtable

show ip igmp snooping snmp mib vlanconfigtable [**vlan** *cisVlanIndex-in*] [**__readonly__ TABLE_cisVlanConfigTable** *cisVlanIndex-out cisVlanIgmpSnoopingEnabled cisVlanFastLeaveEnabled cisVlanIgmpSnoopingOperMode cisVlanIgmpSnoopingLearningMode cisVlanReportSuppressionEnabled cisVlanLeaveQueryInterval cisVlanLastMemberQueryCount cisVlanRobustnessVariable cisVlanTimeToLiveCheckEnabled cisVlanRouterAlertCheckEnabled*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanconfigtable	Show mib table cisVlanConfigTable
vlan	Display VLAN/BD IGMP snooping membership information
cisVlanIndex-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisVlanConfigTable	
cisVlanIndex-out	Type: integer mib table index cisVlanIndex
cisVlanIgmpSnoopingEnabled	Type: integer mib object cisVlanIgmpSnoopingEnabled
cisVlanFastLeaveEnabled	Type: integer mib object cisVlanFastLeaveEnabled
cisVlanIgmpSnoopingOperMode	Type: integer mib object cisVlanIgmpSnoopingOperMode
cisVlanIgmpSnoopingLearningMode	Type: integer mib object cisVlanIgmpSnoopingLearningMode

cisVlanReportSuppressionEnabled	Type: integer mib object cisVlanReportSuppressionEnabled
cisVlanLeaveQueryInterval	Type: uinteger mib object cisVlanLeaveQueryInterval
cisVlanLastMemberQueryCount	Type: uinteger mib object cisVlanLastMemberQueryCount
cisVlanRobustnessVariable	Type: uinteger mib object cisVlanRobustnessVariable
cisVlanTimeToLiveCheckEnabled	Type: integer mib object cisVlanTimeToLiveCheckEnabled
cisVlanRouterAlertCheckEnabled	Type: integer mib object cisVlanRouterAlertCheckEnabled

Command Modes

- /exec

show ip igmp snooping snmp mib vlanFilterConfigTable

show ip igmp snooping snmp mib vlanFilterConfigTable [**vlan** *cisVlanIndex-in*] [**__readonly__ TABLE_cisVlanFilterConfigTable** *cisVlanIndex-out cisVlanFilterAccessGroup cisVlanFilterLimitMax cisVlanFilterLimitExclAccessGrp cisVlanFilterMinVersionAllowed*]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanFilterConfigTable	Display VLAN/BD Filter Group
vlan	Display Interface access group VLAN/BD information
cisVlanIndex-in	Type: vlan Specify VLAN/BD
__readonly__	
TABLE_cisVlanFilterConfigTable	
cisVlanIndex-out	Type: vlan mib talbe index cisVlanIndex>
cisVlanFilterAccessGroup	Type: string mib table index cisVlanFilterAccessGroup
cisVlanFilterLimitMax	Type: uinteger mib object cisVlanFilterLimitMax
cisVlanFilterLimitExclAccessGrp	Type: string mib object cisVlanFilterLimitExclAccessGrp
cisVlanFilterMinVersionAllowed	Type: uinteger mib object cisVlanFilterMinVersionAllowed

Command Modes

- /exec

show ip igmp snooping statistics (igmp)

show ip igmp snooping {**report-policy**| **access-group**} **statistics** [**vlan** *vlan*]

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	Display VLAN IGMP snooping policy statistics information
vlan	Type: vlan Specify VLAN

Command Modes

- /exec

show ip igmp snooping statistics (igmp)

show ip igmp snooping statistics [**global**| **vlan** *vlanId*] [**__readonly__** *pr inv_pkt pnv pf vpcdrqs vpcdrqr vpcdrqf vpcdrus vpcdrur vpcdruf vpccfssf vpccfsrs vpccfsrr vpccfsrf vpccfsrfp vpccfsurls vpccfsurlr vpccfsurlf vpccfsrls vpccfsrlr vpccfsrlf inv_iod stptcnr imapif mfreqr mfcmps mfdgcmps bufsnt bufackr* **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*]

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	Display global statistics
vlan	Display VLAN/BD statistics
vlanId	Type: vlan Specify VLAN/BD
__readonly__	
pr	Type: integer
inv_pkt	Type: integer
pnv	Type: integer
pf	Type: integer
vpcdrqs	Type: integer
vpcdrqr	Type: integer
vpcdrqf	Type: integer
vpcdrus	Type: integer
vpcdrur	Type: integer
vpcdruf	Type: integer
vpccfssf	Type: integer

vpccfsrs	Type: integer
vpccfsrr	Type: integer
vpccfsrf	Type: integer
vpccfsrfp	Type: integer
vpccfsurls	Type: integer
vpccfsurlr	Type: integer
vpccfsurlf	Type: integer
vpccfsrls	Type: integer
vpccfsrlr	Type: integer
vpccfsrlf	Type: integer
inv_iod	Type: integer
stptcnr	Type: integer
imapif	Type: integer
mfreqr	Type: integer
mfcmps	Type: integer
mfdgcmps	Type: integer
bufsnt	Type: integer
bufackr	Type: integer
TABLE_vlan	
vlan-id	Type: integer
ut	Type: string
vpr	Type: integer
v1rr	Type: integer
v2rr	Type: integer
v3rr	Type: integer
v1qr	Type: integer
v2qr	Type: integer

v3qr	Type: integer
v2lr	Type: integer
phr	Type: integer
irr	Type: integer
iqr	Type: integer
v1rs	Type: integer
v2rs	Type: integer
v2ls	Type: integer
v3gs	Type: integer
vmr	Type: integer
upr	Type: integer
qo	Type: integer
v2ro	Type: integer
v2lo	Type: integer
v3ro	Type: integer
vpsr	Type: integer
str	Type: integer
cps	Type: integer
cpr	Type: integer
cpe	Type: integer
mps	Type: integer
mpr	Type: integer
mpe	Type: integer

Command Modes

- /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
__readonly__	
TABLE_vrfname	
vrf-name	Type: vrf
vrf-id	Type: uinteger
instance	Type: uinteger
work-in-txlist	Type: string
TABLE_vrfid	
vrf-name-i	Type: vrf
vrf-id-i	Type: uinteger
instance-i	Type: uinteger
work-in-txlist-i	Type: string

Command Modes

- /exec

show ip interface

show ip interface {**brief [include-secondary]**| [*interface*]| [*ip-addr*]} **[operational] [vaddr]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** [**TABLE_vrf** *vrf-name-out*] [**TABLE_intf** *intf-name proto-state link-state admin-state iod 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-unreach*] [*port-unreach*] [*urpf-mode*] [*ip-ls-type*] [*urpf-acl*] [*pbr-in*] [*pbr-out*] [*acl-in*] [*acl-out*]]]

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	Display summary of all IP addresses
operational	Display only interfaces that are administratively enabled
interface	Type: interface Interface name to display
ip-addr	Type: ipaddr Display interface for local IP address
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display all VRFs
vaddr	Display virtual IP addresses as well
__readonly__	

TABLE_vrf	
vrf-name-out	Type: string
TABLE_intf	
intf-name	Type: string
iod	Type: uinteger
prefix	Type: ipaddr
proto-state	Type: string
link-state	Type: string
admin-state	Type: string
subnet	Type: ipaddr
masklen	Type: uinteger
TABLE_secondary_address	
prefix1	Type: ipaddr
subnet1	Type: ipaddr
masklen1	Type: uinteger
num-addr	Type: uinteger
vaddr-client	Type: string
vaddr-prefix	Type: ipaddr
vaddr-subnet	Type: ipaddr
vaddr-masklen	Type: uinteger
num-vaddr	Type: uinteger
unnum-intf	Type: string
ip-disabled	Type: string
bcast-addr	Type: ipaddr
maddr	Type: ipaddr
num-maddr	Type: uinteger
mtu	Type: uinteger

pref	Type: uinteger
tag	Type: uinteger
proxy-arp	Type: string
lcl-proxy-arp	Type: string
mrouting	Type: string
icmp-redirect	Type: string
dir-bcast	Type: string
ip-unreach	Type: string
port-unreach	Type: string
urpf-mode	**none value: 0** **loose value: 1** **strict value: 2**
ip-ls-type	**none value: 0** **default value: 1** **per-packet value: 2**
urpf-acl	Type: string
pbr-in	Type: string
pbr-out	Type: string
acl-in	Type: string
acl-out	Type: string

Command Modes

- /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 *Not available in this release.*
data-cache	Display EID-to-RLOC data cache mapping in this ITR
eid	Type: ipaddr Display mapping for IP destination EID
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

Command Modes

- /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*]]

Syntax Description

show	Show running system information
ip	Configure IP features
load-sharing	Display global loadbalance info
__readonly__	
univer-id-ran-seed	Type: uinteger
l3-msg-load	Type: string
l34-msg-load	Type: string
dest-addr-load	Type: string
src-dst-ip-gre	Type: string
bad-load	Type: string

Command Modes

- /exec

show ip local-pt

show ip local-pt [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
local-pt	Display local ip address ptree
vrf	Clear information for particular VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_pbr	
interface	Type: string
rmap	Type: string
status	Type: string
vrf_name	Type: string

Command Modes

- /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	logging hash data
__readonly__	

Command Modes

- /exec

show ip msdp

show ip msdp {**sa-cache**| **route**} [*source* [*group*]| *group* [*source*]] [*asn*] [**peer** *peer*] **[detail]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-vrf total-sa-count* **TABLE_sa** *src-addr grp-addr rp-addr out-asn peer-addr uptime expire*]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
route	Display MSDP SA route cache
sa-cache	Display MSDP SA route cache
source	Type: ipaddr Display group/source address for SA
group	Type: ipaddr Display group/source address for SA
asn	Type: asn AS number
detail	Display detailed information
peer	Display MSDP SA received from single peer
peer	Type: ipaddr IP address of peer for SA

__readonly__	
out-vrf	Type: vrf
total-sa-count	Type: integer
TABLE_sa	
src-addr	Type: ipaddr
grp-addr	Type: ipaddr
rp-addr	Type: ipaddr
peer-addr	Type: ipaddr
out-asn	Type: asn
uptime	Type: duration
expire	Type: duration

Command Modes

- /exec

show ip msdp count

show ip msdp count [*asn*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-vrf total-cnt* **TABLE_asn** *out-asn src-cnt grp-cnt*]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
count	Display SA cache counters
asn	Type: asn AS number
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-vrf	Type: vrf
total-cnt	Type: integer
TABLE_asn	
out-asn	Type: asn
src-cnt	Type: uinteger
grp-cnt	Type: uinteger

Command Modes

- /exec

show ip msdp mesh-group

show ip msdp mesh-group [*mesh-group*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *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
mesh-group	Type: string Display single mesh-group
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-vrf	Type: vrf
TABLE_meshgroup	
meshgroup-name	Type: string
TABLE_peer	
peer-ipaddr	Type: ipaddr
peer-asn	Type: asn
peer-description	Type: string

Command Modes

- /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 state-duration peer-listening peer-uptime peer-password peer-ki peer-kt peer-ri peer-rr 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 sa-ka-rcvd sa-ka-sent sa-notif-rcvd sa-notif-sent out-ctrl-msgs in-ctrl-msgs out-data-msgs in-data-msgs rem-port local-port*]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
peer	Display MSDP peer information
peer-address	Type: ipaddr IP address of MSDP peer
__readonly__	
TABLE_peer	
peer-ipaddr	Type: ipaddr
out-vrf	Type: vrf
peer-asn	Type: asn
local-ipaddr	Type: ipaddr
local-iface	Type: interface

fully-configured	Type: bool
peer-description	Type: string
connection-status	**Inactive value: 1** **Admin-shutdown value: 2** **Connecting value: 3** **Listening value: 4** **Established value: 5**
state-duration	Type: duration
peer-listening	Type: bool
peer-uptime	Type: duration
peer-password	Type: bool
peer-ki	Type: uinteger
peer-kt	Type: uinteger
peer-ri	Type: uinteger
peer-rr	Type: string
sa-in-policy	Type: string
sa-out-policy	Type: string
sa-limit	Type: integer
mesh-name	Type: string
last-rcvd	Type: duration
sa-rcvd	Type: uinteger
sa-sent	Type: uinteger
sa-req-rcvd	Type: uinteger
sa-req-sent	Type: uinteger
sa-resp-rcvd	Type: uinteger
sa-resp-sent	Type: uinteger

sa-ka-rcvd	Type: uinteger
sa-ka-sent	Type: uinteger
sa-notif-rcvd	Type: uinteger
sa-notif-sent	Type: uinteger
out-ctrl-msgs	Type: uinteger
in-ctrl-msgs	Type: uinteger
out-data-msgs	Type: uinteger
in-data-msgs	Type: uinteger
rem-port	Type: uinteger
local-port	Type: uinteger

Command Modes

- /exec

show ip msdp policy statistics sa-policy

show ip msdp policy statistics sa-policy *peer-address* {**in**| **out**} [**vrf** {*vrf-name*| *vrf-known-name*}]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	MSDP global configuration commands
policy	Policy information
statistics	Policy statistics
sa-policy	Configureed SA policy for MSDP peer
peer-address	Type: ipaddr IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

Command Modes

- /exec

show ip msdp rpf

show ip msdp rpf *rp-address* [**vrf** {*vrf-name*| *vrf-known-name* **all**}] [**__readonly__** *out-vrf out-rp-address* **TABLE_mesh** *peer-addr mesh-name is-peer-cnt-one is-rp-peer is-bgp-alive is-mbgp bgp-peer-addr peer-asn origin-asn*]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
rpf	Display RPF-peer for RP address
rp-address	Type: ipaddr IP address of RP
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-vrf	Type: vrf
out-rp-address	Type: ipaddr
TABLE_mesh	
peer-addr	Type: ipaddr
mesh-name	Type: string
is-peer-cnt-one	Type: bool
is-rp-peer	Type: bool

is-bgp-alive	Type: bool
is-mbgp	Type: bool
bgp-peer-addr	Type: bool
peer-asn	Type: asn
origin-asn	Type: asn

Command Modes

- /exec

show ip msdp sources

show ip msdp sources [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-vrf* **TABLE_source** *source-addr is-count-ge-limit count 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 & limits
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-vrf	Type: vrf
TABLE_source	
source-addr	Type: ipaddr
is-count-ge-limit	Type: bool
count	Type: integer
is-limit-valid	Type: bool
limit	Type: integer
source-prefix	Type: ipprefix
violates	Type: integer

Command Modes

- /exec

show ip msdp statistics

show ip msdp statistics [*peer-address*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-vrf select-err recv-sel-err* **TABLE_peer** *peer-address buffer-full recv-buf-full fatal-err recv-fat-err would-block recv-would-block sock-exp*]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
statistics	Display internal statistics
peer-address	Type: ipaddr IP address of MSDP peer
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-vrf	Type: vrf
select-err	Type: integer
recv-sel-err	Type: integer
TABLE_peer	
peer-address	Type: ipaddr
buffer-full	Type: integer
recv-buf-full	Type: integer

fatal-err	Type: integer
recv-fat-err	Type: integer
would-block	Type: integer
recv-would-block	Type: integer
sock-exp	Type: integer

Command Modes

- /exec

show ip msdp summary

show ip msdp summary [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
summary	Display MSDP peer summary
__readonly__	
out-vrf	Type: vrf
local-asn	Type: asn
originator-id	Type: ipaddr
config-peer-count	Type: integer
estb-peer-count	Type: integer
shut-peer-count	Type: integer
TABLE_peer	
peer-address	Type: ipaddr
peer-asn	Type: asn

peer-state	**Inactive value: 1** **Admin-shutdown value: 2** **Connecting value: 3** **Listening value: 4** **Established value: 5**
peer-uptime	Type: duration
peer-last-msg	Type: duration
peer-sa-rcvd	Type: uinteger
peer-sa-limit	Type: bool

Command Modes

- /exec

show ip multicast vrf

show ip multicast vrf [*vrf-name*| *vrf-known-name*| **all**] [**__readonly__** *vrf-count* **TABLE_vrf** *vrf-name cid tid rc gc sc star_gc state*]

Syntax Description

show	Show running system information
ip	Display IP information
multicast	Display multicast routing info
vrf	Display information for particular VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
vrf-count	Type: integer
cid	Type: integer
tid	Type: integer
rc	Type: integer
gc	Type: integer
sc	Type: integer
star_gc	Type: integer
state	Type: string

Command Modes

- /exec

show ip 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* [**routes** [**advertised**| **received**| **dampened**]| **advertised-routes**| **received-routes**| **paths**| **flap-statistics**]]| *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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
neighbors	Display all configured BGP neighbors
neighbor-id	Type: ipaddr Display one particular BGP neighbor
neighbor-prefix-id	Type: ipprefix Display details for a prefix peering
ipv4	Display BGP information for IPv4 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

routes	Display all routes advertised/received to/from peer
advertised	Display all routes advertised to this peer
received	Display all routes received from this peer
dampened	Display all dampened 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
flap-statistics	Display flap statistics for routes received from this peer
paths	Display AS paths learned from this peer

Command Modes

- /exec

show ip 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
nexthop	Display routes matching the nexthop
ipnexthop	Type: ipaddr Nexthop address
ipv4	Display BGP information for IPv4 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family

Command Modes

- /exec

show ip 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
nexthop-database	Display nexthop database
ipv4	Display BGP information for IPv4 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

Command Modes

- /exec

show ip ospf

show ip ospf [*tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_ctx** *ptag instance_number cname rid* [*domain_tag*] [*dn_bit_ignore*] *stateful_ha gr_ha* [*gr_planned_only*] [*gr_notify_period*] [*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 no_discard_rt_ext no_discard_rt_int* [*bfd_enabled*] [*passive_dflt*] [*name_lookup*] [**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 spf_runs last_spf_run_time* [*rtr_lsa_throt*] [**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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information

vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_ctx	
ptag	Type: string
instance_number	Type: integer
cname	Type: string
rid	Type: ipaddr
domain_tag	Type: integer
dn_bit_ignore	Type: bool
stateful_ha	Type: bool
gr_ha	Type: bool
gr_planned_only	Type: bool
gr_notify_period	Type: duration
gr_grace_period	Type: duration
gr_state	**active value: 0** **inactive value: 1**

gr_last_status	**None value: 0** **Successful value: 1** **Failed (notify period timeout) value: 2** **Failed (grace period timeout) value: 3** **Failed (topology change) value: 4** **Failed (invalid lsid) value: 5**
gr_helper_mode	Type: bool
support_tos0_only	Type: bool
support_opaque_lsa	Type: bool
low_mem_cond	Type: bool
is_abr	Type: bool
is_asbr	Type: bool
max_lsa_non_self_number	Type: uinteger
max_lsa_state	Type: string
max_lsa_warning_only	Type: bool
max_lsa_current_non_self_lsa_number	Type: uinteger
max_lsa_threshold_pct	Type: uinteger
max_lsa_ignore_time	Type: duration
max_lsa_reset_time	Type: duration
max_lsa_ignore_count	Type: uinteger
max_lsa_current_ignore_count	Type: uinteger
max_lsa_ignore_time_left	Type: duration
max_lsa_reset_time_left	Type: duration
max_lsa_permanent_ignore	Type: bool
TABLE_redist	
proto	Type: string

max_lsas	Type: integer
warning	Type: string
threshold	Type: integer
current_count	Type: integer
admin_dist	Type: integer
ref_bw	Type: integer
spf_start_time	Type: duration
spf_hold_time	Type: duration
spf_max_time	Type: duration
lsa_start_time	Type: duration
lsa_hold_time	Type: duration
lsa_max_time	Type: duration
min_lsa_arr_time	Type: duration
lsa_aging_pace	Type: integer
spf_max_paths	Type: integer
max_metric_adver	Type: bool
max_metric_time_left	Type: duration
max_metric_wait_bgp	Type: bool
max_metric_timeout	Type: duration
max_metric_always	Type: bool
max_metric_sum_lsa	Type: integer
max_metric_ext_lsa	Type: integer
asext_lsa_cnt	Type: integer
asext_lsa_crc	Type: hex
asopaque_lsa_cnt	Type: integer
asopaque_lsa_crc	Type: hex

area_total	Type: integer
area_normal	Type: integer
area_stub	Type: integer
area_nssa	Type: integer
act_area_total	Type: integer
act_area_normal	Type: integer
act_area_stub	Type: integer
act_area_nssa	Type: integer
bfd_enabled	Type: bool
name_lookup	Type: bool
passive_dflt	Type: bool
no_discard_rt_ext	Type: bool
no_discard_rt_int	Type: bool
TABLE_area	
aname	Type: string
backbone_active	Type: bool
active	Type: bool
age	Type: duration
total_intf	Type: integer
act_intf	Type: integer
passive_intf	Type: integer
loopback_intf	Type: integer
gr_nbr_cnt	Type: integer
stub	Type: bool
stub_def_cost	Type: integer
nssa	Type: bool
no_redist	Type: bool

nssa_trans	Type: bool
no_summary	Type: bool
auth_type	**none value: 0** **simple value: 1** **md5 value: 2**
spf_runs	Type: integer
last_spf_run_time	Type: duration
rtr_lsa_throt	Type: duration
TABLE_range	
addr	Type: ipaddr
masklen	Type: integer
state	**active value: 0** **passive value: 1**
nets	Type: integer
advertise	**advertise value: 0** **doNotAdvertise value: 1**
cost	Type: integer
filter_in	Type: string
filter_out	Type: string
lsa_cnt	Type: integer
lsa_crc	Type: hex

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
border-routers	Border routers
__readonly__	
TABLE_ctx	
ptag	Type: string

cname	Type: string
TABLE_br	
type	**nopath value: 0** **discard-internal value: 1** **discard-external value: 2** **intra value: 3** **inter value: 4** **type-1 value: 5** **nssa type-1 value: 6** **type-2 value: 7** **nssa type-2 value: 8**
addr	Type: ipaddr
cost	Type: uinteger
asbr	Type: bool
abr	Type: bool
area	Type: string
spf_inst	Type: uinteger
vlink_unresolved	Type: bool
TABLE_br_ubest_nh	
ubest_nh_addr	Type: ipaddr
ubest_nh_intf	Type: interface
TABLE_br_mbest_nh	
mbest_nh_addr	Type: ipaddr
mbest_nh_intf	Type: interface

Command Modes

- /exec

show ip ospf database

show ip ospf [*tag*] **database** [[[[**network**| **asbr-summary**| **summary**| **router**| **opaque-link**| **opaque-area**| **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*] [*corrupt*] [*rtr_num_links*] [*tag*]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
database	Link-state Database Summary
network	Display network LSAs
asbr-summary	Display type 4 (asbr-summary) LSAs

external	Display type 5 (external) LSAs
router	Display router LSAs
nssa-external	Display type 7 (NSSA external) LSAs
opaque-link	Display Opaque Link-Local LSAs
opaque-area	Display Opaque Area LSAs
opaque-as	Display Opaque AS LSAs
summary	Display type 3 (network-summary) LSAs
self-originated	Display only self-originated LSAs
lsid	Type: ipaddr Restrict display by link state ID
adv-router	Restrict display by Advertising router
advid	Type: ipaddr Advertising router ID
adv-router-name	Restrict display by Advertising router name
adv-name	Type: string DNS Name of the Advertising router
area	Display only LSA's in this area
area-id-ip	Type: ipaddr Area Id as an integer or ip address
ext_tag	Restrict display by tag
tag_val	Type: uinteger min: 1 max: 4294967295 32-bit tag value
__readonly__	
TABLE_ctx	
rid	Type: ipaddr
ptag	Type: string
cname	Type: string

TABLE_db2_lsa	
name	Type: string
area	Type: string
id	Type: ipaddr
advrtr	Type: ipaddr
age	Type: uinteger
seqno	Type: hex
cksum	Type: hex
opaque_id	Type: integer
corrupt	Type: bool
rtr_num_links	Type: integer
tag	Type: integer

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
__readonly__	
TABLE_ctx	

rid	Type: ipaddr
ptag	Type: string
cname	Type: string
TABLE_dbsum	
TABLE_dbsum_area	
area	Type: string
TABLE_dbsum_area_lsa	
area_lsa_name	Type: string
area_lsa_count	Type: integer
area_lsa_total	Type: integer
TABLE_dbsum_all	
TABLE_dbsum_lsa_all	
lsa_name	Type: string
lsa_count	Type: integer
non_self_lsa_total	Type: integer
lsa_total	Type: integer

Command Modes

- /exec

show ip ospf database detail

show ip ospf [*tag*] **database** [[[**network**| **asbr-summary**| **summary**| **router**| **opaque-link**| **opaque-area**| **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** [**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_id*] *advrtr 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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information

vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
database	Link-state Database Summary
network	Display network LSAs
asbr-summary	Display type 4 (asbr-summary) LSAs
external	Display type 5 (external) LSAs
router	Display router LSAs
nssa-external	Display type 7 (NSSA external) LSAs
opaque-link	Display Opaque Link-Local LSAs
opaque-area	Display Opaque Area LSAs
opaque-as	Display Opaque AS LSAs
summary	Display type 3 (network-summary) LSAs
self-originated	Display only self-originated LSAs
lsid	Type: ipaddr Restrict display by link state ID
adv-router	Restrict display by Advertising router
advid	Type: ipaddr Advertising router ID
adv-router-name	Restrict display by Advertising router name
adv-name	Type: string DNS Name of the Advertising router
area	Display only LSA's in this area

area-id-ip	Type: ipaddr Area Id as an integer or ip address
ext_tag	Restrict display by tag
tag_val	Type: uinteger min: 1 max: 4294967295 32-bit tag value
detail	Display LSA in detail
__readonly__	
TABLE_ctx	
rid	Type: ipaddr
ptag	Type: string
cname	Type: string
TABLE_db2_lsa	
name	Type: string
area	Type: string
rtr_max_metric	Type: bool
TABLE_lsdb	
age	Type: integer
maxage	Type: bool
options	Type: hex
options_str	Type: string
wrapping	Type: bool
dummy	Type: bool
flush_pending	Type: bool
type	Type: string
id	Type: string
id_str	Type: string
opaque_type	Type: uinteger

opaque_id	Type: integer
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex
len	Type: integer
corrupt	Type: bool
rtr_abr	Type: bool
rtr_asbr	Type: bool
rtr_translate	Type: bool
rtr_vlink_end	Type: bool
rtr_num_links	Type: integer
rtr_links_mismatch	Type: bool
TABLE_rlsa	
rtr_link_type	Type: string
rtr_link_id_str	Type: string
rtr_link_id	Type: ipaddr
rtr_link_data_str	Type: string
rtr_link_data	Type: ipaddr
rtr_link_num_tos	Type: integer
rtr_link_metric	Type: integer
TABLE_rlinktos	
rtr_link_tos_id	Type: integer
rtr_link_tos_metric	Type: integer
net_mask	Type: integer
TABLE_netlsa	
net_rtr	Type: ipaddr
sum_mask	Type: integer

sum_metric	Type: uinteger
TABLE_sumlsa	
sum_tos_id	Type: integer
sum_tos_metric	Type: uinteger
nssa_mask	Type: integer
nssa_metric_type2	Type: bool
nssa_metric	Type: uinteger
nssa_fwd_addr	Type: ipaddr
nssa_tag	Type: uinteger
TABLE_nssa	
nssa_tos_metric_type2	Type: bool
nssa_tos_id	Type: integer
nssa_tos_metric	Type: uinteger
nssa_tos_fwd_addr	Type: ipaddr
nssa_tos_tag	Type: uinteger
asext_mask	Type: integer
asext_metric_type2	Type: bool
asext_metric	Type: uinteger
asext_fwd_addr	Type: ipaddr
asext_tag	Type: integer
TABLE_asext	
asext_tos_metric_type2	Type: bool
asext_tos_id	Type: integer
asext_tos_metric	Type: integer
asext_tos_fwd_addr	Type: ipaddr
asext_tos_tag	Type: integer
opaque_link_intf	Type: interface

opaque_unknown	Type: bool
opaque_data_len	Type: integer
opaque_data	Type: integer
opaque_corrupt	Type: bool
tlv_type	Type: integer
tlv_len	Type: integer
tlv_data	Type: integer
tlv_unknown	Type: bool
gr_interval	Type: integer
gr_reason	Type: string
gr_addr	Type: ipaddr
te_frag_id	Type: integer
te_rtr_id	Type: ipaddr
te_link_type	Type: string
te_link_id	Type: string
te_link_metric	Type: integer
te_link_max_bw	Type: string
te_link_rsv_bw	Type: string
te_link_unrsv_bw	Type: string
te_link_admin	Type: string
te_num_links	Type: integer

Command Modes

- /exec

show ip ospf ha

show ip ospf [*tag*] **ha** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_ctx** *ptag cname stateful pss_restored pss_state gr_enabled gr_grace_period gr_state gr_last_status gr_helper_mode*]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
ha	High Availability status
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string

stateful	**enabled value: 0** **disabled value: 1**
pss_restored	Type: bool
pss_state	**disable value: 0** **standby value: 1** **recovering value: 2** **active value: 3**
gr_enabled	Type: bool
gr_grace_period	Type: duration
gr_state	**Active value: 0** **Inactive value: 1**
gr_last_status	Type: string
gr_helper_mode	Type: bool

Command Modes

- /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 addr* [*masklen*] *area* [*if_cfg*] *state_str type_str cost* [*bfd_enabled*] [*ldp_sync*] *index* [*passive*] [*mpls*] [*transmit_delay*] [*if_priority*] [*dr_rid*] [*dr_addr*] [*bdr_rid*] [*bdr_addr*] [*nbr_total*] [*nbr_flood*] [*nbr_adjs*] [*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*]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
interface	OSPF enabled interface

interface	Type: interface OSPF enabled interface
private	Developer-only statistics
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_intf	
ifname	Type: interface
admin_status	**up value: 0** **down value: 1**
proto_status	**up value: 0** **down value: 1**
addr	Type: ipaddr
masklen	Type: integer
area	Type: string
if_cfg	Type: bool
state_str	**UNKNOWN value: 0** **DOWN value: 1** **LOOPBACK value: 2** **WAITING value: 3** **P2P value: 4** **DROTHER value: 5** **BDR value: 6** **DR value: 7**

type_str	**UNKNOWN value: 0** **LOOPBACK value: 1** **P2P value: 2** **P2MP value: 3** **NBMA value: 4** **BROADCAST value: 5**
cost	Type: integer
bfd_enabled	Type: bool
ldp_sync	Type: bool
index	Type: integer
passive	Type: bool
mpls	Type: bool
transmit_delay	Type: integer
if_priority	Type: integer
dr_rid	Type: ipaddr
dr_addr	Type: ipaddr
bdr_rid	Type: ipaddr
bdr_addr	Type: ipaddr
nbr_total	Type: integer
nbr_flood	Type: integer
nbr_adjs	Type: integer
gr_nbr	Type: integer
hello_interval	Type: integer
dead_interval	Type: integer
wait_interval	Type: integer
rxmt_interval	Type: integer

hello_timer	Type: duration
wait_timer	Type: duration
pacing_timer	Type: duration
lsu_timer	Type: duration
lsack_timer	Type: duration
netlsa_throt_timer	Type: duration
auth_type	**none value: 0** **simple value: 1** **md5 value: 2**
keychain_name	Type: string
keychain_ready	Type: bool
auth_md5_keyid	Type: integer
link_lsa_cnt	Type: integer
link_lsa_crc	Type: integer

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPF interfaces
__readonly__	
TABLE_ctx	
ptag	Type: string

cname	Type: string
intf_count	Type: integer
TABLE_intf	
ifname	Type: interface
index	Type: uinteger
area	Type: string
cost	Type: uinteger
state_str	**UNKNOWN value: 0** **DOWN value: 1** **LOOPBACK value: 2** **WAITING value: 3** **P2P value: 4** **DROTHER value: 5** **BDR value: 6** **DR value: 7**
nbr_total	Type: integer
admin_status	**up value: 0** **down value: 1**

Command Modes

- /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*] [*advrtr*] [*seqno*] [*cksum*] [*age*]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
lsa-content-changed-list	LSAs that changed contents
interface	Type: interface OSPF enabled interface
ip-addr	Type: ipaddr Neighbor router ID
neighbor-name	Type: string DNS Name of the neighbor
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_lschg	
nbr_rid	Type: ipaddr
intf	Type: interface

nbr_addr	Type: ipaddr
TABLE_lsa	
type	Type: integer
lsid	Type: ipaddr
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex
age	Type: uinteger

Command Modes

- /exec

show ip ospf memory

show ip ospf [*tag*] **memory** [**__readonly__ TABLE_mem** *ptag byte_total byte_consumed byte_overhead byte_allocated alloc_current alloc_created alloc_failed alloc_free bf_current bf_created bf_failed bf_free bf_byte_consumed bf_32_current bf_32_created bf_32_failed bf_32_free bf_32_byte_consumed slab_current slab_created slab_failed slab_free slab_byte_consumed if_index_alloc_failed nbr_index_alloc_failed*]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
memory	Memory usage statistics
__readonly__	
TABLE_mem	
ptag	Type: string
byte_total	Type: integer
byte_consumed	Type: integer
byte_overhead	Type: integer
byte_allocated	Type: uinteger
alloc_current	Type: integer
alloc_created	Type: integer
alloc_failed	Type: integer
alloc_free	Type: integer

bf_current	Type: integer
bf_created	Type: integer
bf_failed	Type: integer
bf_free	Type: integer
bf_byte_consumed	Type: uinteger
bf_32_current	Type: integer
bf_32_created	Type: integer
bf_32_failed	Type: integer
bf_32_free	Type: integer
bf_32_byte_consumed	Type: uinteger
slab_current	Type: integer
slab_created	Type: integer
slab_failed	Type: integer
slab_free	Type: integer
slab_byte_consumed	Type: integer
if_index_alloc_failed	Type: integer
nbr_index_alloc_failed	Type: integer

Command Modes

- /exec

show ip ospf mpls ldp interface

show ip ospf [*tag*] **mpls ldp interface** [*interface*| **vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_ctx** *ptag cname* [**TABLE_ldpintf** *ifname area ldp_ac ldp_sync state_str type_str*]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
mpls	MPLS related information
ldp	LDP related information
interface	OSPF enabled interface
interface	Type: interface OSPF enabled interface

__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_ldpintf	
ifname	Type: interface
area	Type: string
ldp_ac	Type: bool
ldp_sync	Type: bool
state_str	**unknown value: 0** **down value: 1** **loopback value: 2** **waiting value: 3** **p2p value: 4** **drother value: 5** **bdr value: 6** **dr value: 7**
type_str	**unknown value: 0** **loopback value: 1** **p2p value: 2** **p2mp value: 3** **nbma value: 4** **broadcast value: 5**

Command Modes

- /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 uptime addr intf* [*multiarea*]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
neighbors	Neighbor list
interface	Type: interface OSPF enabled interface
neighbor	Type: ipaddr Router ID of neighbor

neighbor-name	Type: string DNS Name of the neighbor
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
nbrcount	Type: integer
TABLE_nbr	
rid	Type: ipaddr
priority	Type: integer
state	**UNKNOWN value: 0** **DOWN value: 1** **ATTEMPT value: 2** **INIT value: 3** **TWOWAY value: 4** **EXSTART value: 5** **EXCHANGE value: 6** **LOADING value: 7** **FULL value: 8**
uptime	Type: duration
addr	Type: ipaddr
intf	Type: interface
multiarea	Type: bool

Command Modes

- /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*]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
neighbors	Neighbor list

interface	Type: interface OSPF enabled interface
neighbor	Type: ipaddr Router ID of neighbor
neighbor-name	Type: string DNS Name of the neighbor
detail	Show detailed neighbor display
private	Developer-only statistics
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_nbr	
rid	Type: ipaddr
addr	Type: ipaddr
area	Type: string
intf	Type: interface
state	**UNKNOWN value: 0** **DOWN value: 1** **ATTEMPT value: 2** **INIT value: 3** **TWOWAY value: 4** **EXSTART value: 5** **EXCHANGE value: 6** **LOADING value: 7** **FULL value: 8**
transition	Type: integer

lastchange	Type: duration
bfd_state	Type: string
priority	Type: integer
ifid	Type: integer
dr	Type: ipaddr
bdr	Type: ipaddr
master	**master value: 0** **slave value: 1**
seqno	Type: integer
dbdallsentacked	Type: bool
dbdallsent	Type: bool
dbdallacked	Type: bool
lsaonreqlist	Type: integer
lsafromlastreq	Type: integer
lsreqrxmts	Type: integer
helloptions	Type: hex
dbdoptions	Type: hex
lastnonhello	Type: duration
deadtimer	Type: duration
pacingtimer	Type: duration
dbdrxmtimer	Type: duration
reqrxmtimer	Type: duration
lsutimer	Type: duration
rerxmtimer	Type: duration
fastrerxmtimer	Type: duration
lsacktimer	Type: duration

grtimer	Type: duration
helpermode	Type: bool
helpercand	Type: bool
helperterm	Type: bool
senddbd	Type: bool
sendlsreq	Type: bool
sendlsu	Type: bool
sendlsurxmt	Type: bool
sendlsack	Type: bool
sendlsreqreply	Type: bool
dc	Type: bool

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
neighbors	Neighbor list
interface	Type: interface OSPF enabled interface
summary	Summary of neighbors

__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_intf	
ifname	Type: interface
total	Type: bool
down	Type: integer
attempt	Type: integer
init	Type: integer
twoway	Type: integer
exstart	Type: integer
exchange	Type: integer
loading	Type: integer
full	Type: integer
if_total	Type: integer

Command Modes

- /exec

show ip ospf policy statistics

show ip ospf [*inst*] **policy statistics** {**redistribute** {{**bgp**| **eigrp**} *as*| {**isis**| **ospf**| **rip**} *tag*| **static**| **direct**| **amt**}| **area** *area-id-ip* **filter-list** {**in**| **out**}} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *ptag* **TABLE_ctx** *cname*]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
inst	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	ISO Intermediate-to-Intermediate (IS-IS)

bgp	Border Gateway Protocol (BGP)
as	Type: integer min: 1 max: 65535 Autonomous system number
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
static	Static
direct	Directly connected
amt	AMT anycast prefix
tag	Type: string Source protocol tag
area	Configure area properties
area-id-ip	Type: ipaddr Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
in	Filter networks sent to this area
out	Filter networks sent from this area
__readonly__	
ptag	Type: string
TABLE_ctx	
cname	Type: string

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
request-list	Link state request list
interface	Type: interface OSPF enabled interface
ip-addr	Type: ipaddr Neighbor router ID
neighbor-name	Type: string DNS Name of the neighbor
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_lsreq	
nbr_rid	Type: ipaddr
intf	Type: interface

nbr_addr	Type: ipaddr
total	Type: integer
TABLE_lsa	
type	Type: integer
lsid	Type: ipaddr
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex
age	Type: uinteger

Command Modes

- /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	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
retransmission-list	Link state retransmission list
routerid	Type: ipaddr Neighbor router ID
router-name	Type: string DNS Name of the router
interface	Type: interface OSPF enabled interface
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_rxmit	
nbr_rid	Type: ipaddr
intf	Type: interface

nbr_addr	Type: ipaddr
timer_running	Type: bool
timer_due	Type: duration
TABLE_lsa	
type	Type: integer
lsid	Type: ipaddr
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex
age	Type: uinteger

Command Modes

- /exec

show ip ospf route

show ip ospf [*tag*] **route** [*ip-addr*| *ip-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_rib direct* [*area*] [*tag*] [*vlink_unresolved*] [**TABLE_route_ubest_nh** [*ubest_nh_addr*] [*ubest_nh_intf*] [*ubest_cost*] [*distance*] [*ubest_nh_direct*]] [**TABLE_route_mbest_nh** [*mbest_nh_addr*] [*mbest_nh_intf*] [*mbest_cost*] [*mbest_nh_direct*]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
route	Internal OSPF routes
ip-addr	Type: ipaddr Show single OSPF route

ip-prefix	Type: ipprefix Show single exact match OSPF route
longer-prefixes	Show exact match and more specific routes
all_routes	Display all OSPF routes
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
hdr_addr	Type: ipaddr
hdr_masklen	Type: integer
TABLE_route	
addr	Type: ipaddr
masklen	Type: integer
type	**nopath value: 0** **discard-internal value: 1** **discard-external value: 2** **intra value: 3** **inter value: 4** **type-1 value: 5** **nssa type-1 value: 6** **type-2 value: 7** **nssa type-2 value: 8** **unknown value: 9**
in_rib	Type: bool
direct	Type: bool
area	Type: string

tag	Type: uinteger
vlink_unresolved	Type: bool
TABLE_route_ubest_nh	
ubest_nh_addr	Type: ipaddr
ubest_nh_intf	Type: interface
ubest_cost	Type: uinteger
distance	Type: integer
ubest_nh_direct	Type: bool
TABLE_route_mbest_nh	
mbest_nh_addr	Type: ipaddr
mbest_nh_intf	Type: interface
mbest_cost	Type: uinteger
mbest_nh_direct	Type: bool

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
route	Internal OSPF routes
ip-prefix	Type: ipprefix Show single exact match OSPF route
longer-prefixes	Show exact match and more specific routes

summary	Show route counts
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_route	
total_routes	Type: integer
total_paths	Type: integer
TABLE_route_type	
path_type	**nopath value: 0** **discard-internal value: 1** **discard-external value: 2** **intra value: 3** **inter value: 4** **type-1 value: 5** **nssa type-1 value: 6** **type-2 value: 7** **nssa type-2 value: 8** **unknown value: 9**
path_routes	Type: integer
path_paths	Type: integer
TABLE_route_masklen	
masklen	Type: integer
masklen_routes	Type: integer
masklen_paths	Type: integer

Command Modes

- /exec

show ip ospf sham-links

show ip ospf [*tag*] **sham-links [brief]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_ctx** *ptag cname* [**TABLE_slink** *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* [*bfd_enabled*] *index* [*passive*] [*mpls*] [*transmit_delay*] [*if_priority*] [*dr_rid*] [*dr_addr*] [*bdr_rid*] [*bdr_addr*] [*nbr_total*] [*nbr_flood*] [*nbr_adjs*] [*gr_nbr*] [*hello_interval*] [*dead_interval*] [*wait_interval*] [*rxmt_interval*] [*sum_total*] [*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*] [*dest_ip*] [*src_ip*] [*ifnum*] [*state*] [*transition*] [*lastchange*] [*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*]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

all	Display information for all VRFs
sham-links	Sham link information *Not available in this release.*
brief	Display summary of OSPF sham links
__readonly__	
ptag	Type: string
TABLE_ctx	
cname	Type: string
TABLE_slink	
name	Type: string
nbr_rid	Type: ipaddr
if_state	**up value: 0** **down value: 1**
transit_area	Type: string
nh_intf	Type: interface
dc_enabled	Type: bool
nbr_addr	Type: ipaddr
sum_total	Type: integer
transit_area_stub	Type: bool
transit_area_nssa	Type: bool
addr	Type: ipaddr
masklen	Type: integer
area	Type: string
if_cfg	Type: bool

state_str	**uknown value: 0** **down value: 1** **loopback value: 2** **waiting value: 3** **p2p value: 4** **drother value: 5** **bdr value: 6** **dr value: 7**
type_str	**unknown value: 0** **loopback value: 1** **p2p value: 2** **p2mp value: 3** **nbma value: 4** **broadcast value: 5**
cost	Type: integer
bfd_enabled	Type: bool
index	Type: integer
passive	Type: bool
mpls	Type: bool
transmit_delay	Type: integer
if_priority	Type: integer
dr_rid	Type: ipaddr
dr_addr	Type: ipaddr
bdr_rid	Type: ipaddr
bdr_addr	Type: ipaddr

nbr_total	Type: integer
nbr_flood	Type: integer
nbr_adjs	Type: integer
gr_nbr	Type: integer
hello_interval	Type: integer
dead_interval	Type: integer
wait_interval	Type: integer
rxmt_interval	Type: integer
hello_timer	Type: duration
wait_timer	Type: duration
pacing_timer	Type: duration
lsu_timer	Type: duration
lsack_timer	Type: duration
netlsa_throt_timer	Type: duration
auth_type	**none value: 0** **simple value: 1** **md5 value: 2**
keychain_name	Type: string
keychain_ready	Type: bool
auth_md5_keyid	Type: integer
link_lsa_cnt	Type: integer
link_lsa_crc	Type: integer

state	**unknown value: 0** **down value: 1** **attempt value: 2** **init value: 3** **twoway value: 4** **exstart value: 5** **exchange value: 6** **loading value: 7** **full value: 8**
transition	Type: integer
lastchange	Type: duration
priority	Type: integer
ifid	Type: integer
dr	Type: ipaddr
bdr	Type: ipaddr
master	**master value: 0** **slave value: 1**
seqno	Type: integer
dbdallsentacked	Type: bool
dbdallsent	Type: bool
dbdallacked	Type: bool
lsaonreqlist	Type: integer
lsafromlastreq	Type: integer
lsreqrxmts	Type: integer
helloptions	Type: integer

dbdoptions	Type: integer
lastnonhello	Type: duration
deadtimer	Type: duration
pacingtimer	Type: duration
dbdrxmtimer	Type: duration
reqrxmtimer	Type: duration
lsutimer	Type: duration
rerxmtimer	Type: duration
fastrerxmtimer	Type: duration
lsacktimer	Type: duration
grtimer	Type: duration
helpermode	Type: bool
helpercand	Type: bool
helperterm	Type: bool
senddbd	Type: bool
sendlsreq	Type: bool
sendlsu	Type: bool
sendlsurxmt	Type: bool
sendlsack	Type: bool
sendlsreqreply	Type: bool
dest_ip	Type: ipaddr
src_ip	Type: ipaddr
ifnum	Type: integer
ifstate	Type: string

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

all	Display information for all VRFs
statistics	Event counters
__readonly__	
TABLE_stats	
ptag	Type: string
cname	Type: string
last_clear	Type: duration
rid_change	Type: integer
dr_elections	Type: integer
older_lsa_recv	Type: integer
nbr_state_change	Type: integer
nbr_dead_postpone	Type: integer
nbr_dead_expire	Type: integer
nbr_bad_lsreq	Type: integer
nbr_seqno_mismatch	Type: integer
spf_full	Type: integer
spf_summary	Type: integer
spf_external	Type: integer
spf_extsummary	Type: integer
rtr_generate	Type: integer
rtr_refresh	Type: integer
rtr_flush	Type: integer
rtr_other_flush	Type: integer
net_generate	Type: integer
net_refresh	Type: integer
net_flush	Type: integer
net_other_flush	Type: integer

sum_generate	Type: integer
sum_refresh	Type: integer
sum_flush	Type: integer
sum_other_flush	Type: integer
asbr_generate	Type: integer
asbr_refresh	Type: integer
asbr_flush	Type: integer
asbr_other_flush	Type: integer
asext_generate	Type: integer
asext_refresh	Type: integer
asext_flush	Type: integer
asext_other_flush	Type: integer
opaque_link_generate	Type: integer
opaque_link_refresh	Type: integer
opaque_link_flush	Type: integer
opaque_link_other_flush	Type: integer
opaque_area_generate	Type: integer
opaque_area_refresh	Type: integer
opaque_area_flush	Type: integer
opaque_area_other_flush	Type: integer
opaque_as_generate	Type: integer
opaque_as_refresh	Type: integer
opaque_as_flush	Type: integer
opaque_as_other_flush	Type: integer
limbo_lsa_count	Type: integer
limbo_lsa_hwm	Type: integer

limbo_lsa_deleted	Type: integer
limbo_lsa_revived	Type: integer
limbo_runs	Type: integer
limbo_lsa_last_time_hwm	Type: string
limbo_timer	Type: duration
helloq_size	Type: integer
helloq_max_size	Type: integer
helloq_hwm	Type: integer
helloq_drops	Type: integer
helloq_last_hwm_time	Type: string
floodq_size	Type: integer
floodq_max_size	Type: integer
floodq_hwm	Type: integer
floodq_drops	Type: integer
floodq_last_hwm_time	Type: string
lsdb_add_fail	Type: integer
TABLE_buffer_detail	
buf_size	Type: integer
buf_size_huge	Type: bool
buf_in_use	Type: integer
buf_hwm	Type: integer
buf_perm	Type: integer
buf_alloc	Type: integer
buf_free	Type: integer

Command Modes

- /exec

show ip ospf summary-address

show ip ospf [*tag*] **summary-address** [**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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
summary-address	Summary-address redistribution information
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string

rid	Type: ipaddr
TABLE_sum	
addr	Type: ipaddr
masklen	Type: integer
metric	Type: integer
tag	Type: uinteger
pending	Type: bool

Command Modes

- /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* [*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
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
interface	Type: interface OSPF enabled interface
detail	Display detailed information
vrf	Display per-VRF information

vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
traffic	Packet counters
__readonly__	
TABLE_traf	
ptag	Type: string
cname	Type: string
last_clear	Type: duration
ifname	Type: interface
pkt_in	Type: integer
pkt_out	Type: integer
lsu_first_trans	Type: integer
lsu_retrans	Type: integer
lsu_for_lsreq	Type: integer
lsu_nbr_trans	Type: integer
throttle_out	Type: integer
throttle_out_token	Type: integer
throttle_out_ip	Type: integer
lsa_ignored	Type: integer
lsa_dropped_spf	Type: integer
lsa_dropped_gr	Type: integer
pkt_drops_in	Type: integer

pkt_drops_out	Type: integer
pkt_errors_in	Type: integer
pkt_errors_out	Type: integer
hello_errors_in	Type: integer
dbds_errors_in	Type: integer
lsreqs_errors_in	Type: integer
lsus_errors_in	Type: integer
lsacks_errors_in	Type: integer
pkt_unknown_in	Type: integer
pkt_unknown_out	Type: integer
pkt_no_ospf_intf	Type: integer
bad_version	Type: integer
bad_crc	Type: integer
dup_rtr_id	Type: integer
dup_src_addr	Type: integer
invalid_src_addr	Type: integer
invalid_dst_addr	Type: integer
non_existing_nbr	Type: integer
pkt_passive_intf	Type: integer
wrong_area	Type: integer
invalid_pkt_len	Type: integer
nbr_changed_routerid_ipaddr	Type: integer
bad_auth	Type: integer
bad_reserved	Type: integer
pkt_no_vrf	Type: integer
hellos_in	Type: integer

dbds_in	Type: integer
lsreqs_in	Type: integer
lsus_in	Type: integer
lsacks_in	Type: integer
hellos_out	Type: integer
dbds_out	Type: integer
lsreqs_out	Type: integer
lsus_out	Type: integer
lsacks_out	Type: integer
hellos_in_hq	Type: integer
dbds_in_hq	Type: integer
lsreqs_in_flq	Type: integer
lsus_in_flq	Type: integer
lsacks_in_flq	Type: integer
lsas_in_dbds_in	Type: integer
lsas_in_lsreqs_in	Type: integer
lsas_in_lsus_in	Type: integer
lsas_in_lsacks_in	Type: integer
lsas_in_dbds_out	Type: integer
lsas_in_lsreqs_out	Type: integer
lsas_in_lsus_out	Type: integer
lsas_in_lsacks_out	Type: integer
lsas_in_rxmt_lsus_out	Type: integer

Command Modes

- /exec

show ip ospf traps-queue

show ip ospf [*tag*] **traps-queue**

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
traps-queue	Show all the priority traps queue parameters

Command Modes

- /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_adjs*] [*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*] [*reqrxmtimer*] [*lsutimer*] [*rerxmtimer*] [*fastrerxmtimer*] [*lsacktimer*] [*grtimer*] [*helpermode*] [*helpercand*] [*helperterm*] [*senddbd*] [*sendlsreq*] [*sendlsu*] [*sendlsurxmt*] [*sendlsack*] [*sendlsreqreply*]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

all	Display information for all VRFs
virtual-links	Virtual link information
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_vlink	
name	Type: string
nbr_rid	Type: ipaddr
if_state	**up value: 0** **down value: 1**
transit_area	Type: string
nh_intf	Type: interface
dc_enabled	Type: bool
nbr_addr	Type: ipaddr
transit_area_stub	Type: bool
transit_area_nssa	Type: bool
addr	Type: ipaddr
masklen	Type: integer
area	Type: string
if_cfg	Type: bool

state_str	**UNKNOWN value: 0** **DOWN value: 1** **LOOPBACK value: 2** **WAITING value: 3** **P2P value: 4** **DROTHER value: 5** **BDR value: 6** **DR value: 7**
type_str	**UNKNOWN value: 0** **LOOPBACK value: 1** **P2P value: 2** **P2MP value: 3** **NBMA value: 4** **BROADCAST value: 5**
cost	Type: integer
index	Type: integer
passive	Type: bool
mpls	Type: bool
transmit_delay	Type: integer
if_priority	Type: integer
dr_rid	Type: ipaddr
dr_addr	Type: ipaddr
bdr_rid	Type: ipaddr
bdr_addr	Type: ipaddr
nbr_total	Type: integer

nbr_flood	Type: integer
nbr_adjs	Type: integer
gr_nbr	Type: integer
hello_interval	Type: integer
dead_interval	Type: integer
wait_interval	Type: integer
rxmt_interval	Type: integer
hello_timer	Type: duration
wait_timer	Type: duration
pacing_timer	Type: duration
lsu_timer	Type: duration
lsack_timer	Type: duration
netlsa_throt_timer	Type: duration
auth_type	**none value: 0** **simple value: 1** **md5 value: 2**
keychain_name	Type: string
keychain_ready	Type: bool
auth_md5_keyid	Type: integer
link_lsa_cnt	Type: integer
link_lsa_crc	Type: integer

state	**unknown value: 0** **down value: 1** **attempt value: 2** **init value: 3** **twoway value: 4** **exstart value: 5** **exchange value: 6** **loading value: 7** **full value: 8**
transition	Type: integer
lastchange	Type: duration
priority	Type: integer
ifid	Type: integer
dr	Type: ipaddr
bdr	Type: ipaddr
master	**master value: 0** **slave value: 1**
seqno	Type: integer
dbdallsentacked	Type: bool
dbdallsent	Type: bool
dbdallacked	Type: bool
lsaonreqlist	Type: integer
lsafromlastreq	Type: integer
lsreqrxmts	Type: integer
helloptions	Type: integer

dbdoptions	Type: integer
lastnonhello	Type: duration
deadtimer	Type: duration
pacingtimer	Type: duration
dbdrxmtimer	Type: duration
reqrxmtimer	Type: duration
lsutimer	Type: duration
rerxmtimer	Type: duration
fastrerxmtimer	Type: duration
lsacktimer	Type: duration
grtimer	Type: duration
helpermode	Type: bool
helpercand	Type: bool
helperterm	Type: bool
senddbd	Type: bool
sendlsreq	Type: bool
sendlsu	Type: bool
sendlsurxmt	Type: bool
sendlsack	Type: bool
sendlsreqreply	Type: bool

Command Modes

- /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
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPF virtual links
__readonly__	
TABLE_ctx	
ptag	Type: string

cname	Type: string
vlink_count	Type: integer
TABLE_vlink	
nbr_rid	Type: ipaddr
vlink_num	Type: uinteger
transit_area	Type: string
cost	Type: integer
if_state	**up value: 0** **down value: 1**

Command Modes

- /exec

show ip pim bitfield

show ip pim bitfield

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
bitfield	Display compressed bitfield details

Command Modes

- /exec

show ip pim config-sanity

show ip pim config-sanity

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
config-sanity	Configuration Sanity check

Command Modes

- /exec

show ip pim group-range

show ip pim group-range [*group*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-context* **TABLE_group** *grp-addr invalid-grp mode rp-addr sh-tree-only-range action*]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
group-range	Display the various group-ranges
group	Type: ipaddr IP address of group to display
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
TABLE_group	
invalid-grp	Type: bool
grp-addr	Type: ipaddr
mode	
rp-addr	Type: ipaddr
sh-tree-only-range	Type: ipprefix
action	

Command Modes

- /exec

show ip pim lisp encap

show ip pim lisp encap [**__readonly__ TABLE_index** *index source-rloc dest-rloc ref-count*]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
lisp	LISP related information
encap	All the encap indices
__readonly__	
TABLE_index	
index	Type: uinteger
source-rloc	Type: ipaddr
dest-rloc	Type: ipaddr
ref-count	Type: uinteger

Command Modes

- /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 mdt_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 *Not available in this release.*
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
out_context	Type: string
mti	Type: interface
mti_status	Type: string
default_mdt_grp	Type: ipaddr
grp_mode	Type: string
asm_shared_tree	Type: string
mti_config_mtu	Type: uinteger

mti_active_mtu	Type: uinteger
mdt_src_if	Type: interface
bgp_update_src_if	Type: interface
hello_interval	Type: uinteger
jp_interval	Type: uinteger
data_mdt_join_interval	Type: uinteger
data_switchover_interval	Type: uinteger
data_holddown_interval	Type: uinteger
data_timeout_interval	Type: uinteger
mdt_src	Type: ipaddr
mdt_src_if	Type: interface
bgp_rd	Type: string
bgp_rd_set	Type: string
send_join_count	Type: uinteger
rcvd_join_count	Type: uinteger
TABLE_data_mdt	
grange_prefix	Type: ipaddr
grange_mask_len	Type: uinteger
threshold	Type: uinteger
policy_name	Type: string

Command Modes

- /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 *Not available in this release.*
bgp	Display BGP related information
mdt-source	Source address of MVPN neighbor
src-addr	Type: ipaddr Source Address
__readonly__	
TABLE_entry	
bgp_rd	Type: string
mdt_src	Type: ipaddr
mdt_grp	Type: ipaddr
local	Type: string

Command Modes

- /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 *Not available in this release.*
history	Display MDT Data Join Send Histoy
interval	Display in specified interval
min	Type: uinteger min: 1 max: 18724286 Minutes
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
out_context	Type: string
TABLE_entry	
csrc	Type: ipaddr
cgrp	Type: ipaddr

psrc	Type: ipaddr
pgrp	Type: ipaddr
uptime	Type: duration
send_count	Type: uinteger

Command Modes

- /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 recv_count*]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information *Not available in this release.*
receive	Display Received Data Joins Information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
detail	Display detailed information
__readonly__	
TABLE_vrf	
out_context	Type: string
TABLE_entry	
csrc	Type: ipaddr
cgrp	Type: ipaddr
psrc	Type: ipaddr
pgrp	Type: ipaddr
uptime	Type: duration

expires	Type: duration
recv_count	Type: uinteger

Command Modes

- /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 *Not available in this release.*
send	Display MDT Data Join Send Information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
detail	Display detailed information
__readonly__	
TABLE_vrf	
out_context	Type: string
TABLE_entry	
csrc	Type: ipaddr
cgrp	Type: ipaddr
psrc	Type: ipaddr
pgrp	Type: ipaddr
uptime	Type: duration

send_count	Type: uinteger

Command Modes

- /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-addrs 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_immediatetimeoutlist** *immediatetimeoutoif-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	Type: ipaddr Source address to display
group	Type: ipaddr Group address to display
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
vrf-name	Type: vrf
TABLE_grp	
mcast-addrs	Type: string
incoming-intf	Type: string

rpf-nbr	Type: ipaddr
timeout-interval	Type: string
oif-list-count	Type: uinteger
TABLE_oiflist	
oif-name	Type: string
timeout-list-count	Type: uinteger
TABLE_timeoutlist	
timeoutoif-name	Type: string
immediate-list-count	Type: uinteger
TABLE_immediatelist	
immediateoif-name	Type: string
immediate-timeout-list-count	Type: uinteger
TABLE_immediatetimeoutlist	
immediatetimeoutoif-name	Type: string

Command Modes

- /exec

show ip pim policy statistics (pim)

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**}]

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	Show 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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

Command Modes

- /exec

show ip pim policy statistics (pim)

show ip pim policy statistics {**jp-policy**| **neighbor-policy**} *interface*

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
interface	Type: interface Interface to display policy statistics for

Command Modes

- /exec

show ip pim route

show ip pim route {**[bitfield]**| *source group*| *group* [*source*] **[bitfield]**} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_vrf** *context-name route-count* **TABLE_addr** *mcast-addrs rp-addr rp-local bidir sgexpire sgrexpire timeleft rp-bit register assert-timeout* **TABLE_rpf** *intf-name rpf-nbr-1 rpf-nbr-addr rpf-nbr-2 metric-pref route-metric* **TABLE_oif** *count bf-str* **TABLE_timeout** *count bf-str* **TABLE_immediate** *count bf-str* **TABLE_immediatetimeout** *count bf-str timeout-interval jp-holdtime 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
group	Type: ipaddr Group address to display
source	Type: ipaddr Source address to display
bitfield	Display details of each bitfield for PIM route
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
context-name	Type: string
route-count	Type: integer

TABLE_addr	
mcast-addrs	Type: string
rp-addr	Type: string
rp-local	Type: string
bidir	Type: bool
sgexpire	Type: string
sgrexpire	Type: string
timeleft	Type: string
rp-bit	Type: bool
register	Type: string
assert-timeout	Type: string
TABLE_rpf	
intf-name	Type: string
rpf-nbr-1	Type: string
rpf-nbr-addr	Type: string
rpf-nbr-2	Type: string
metric-pref	Type: integer
route-metric	Type: integer
TABLE_oif	
count	Type: integer
bf-str	Type: bool
TABLE_timeout	
count	Type: integer
bf-str	Type: bool
TABLE_immediate	
count	Type: integer
bf-str	Type: bool

TABLE_immediatetimeout	
count	Type: integer
bf-str	Type: bool
timeout-interval	Type: integer
jp-holdtime	Type: integer
encap-index	Type: uinteger

Command Modes

- /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-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
group	Type: ipaddr Group address for RP lookup
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
rp-found	Type: bool
is-rp-bsr-learnt	Type: bool
out-group	Type: ipaddr
hash-length	Type: integer
out-bsr	Type: ipaddr
TABLE_rp	
rp-addr	Type: ipaddr

hash	Type: uinteger
isbest_hash	Type: bool

Command Modes

- /exec

show ip pim rp

show ip pim rp [*group*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-context is-bsr-enabled is-bsr-listen-only is-bsr-forward-only are-we-bsr bsr-address is-bsr-address bsr-priority bsr-hash-masklen bs-timer bsr-uptime bsr-expires is-autorp-enabled is-autorp-listen-only is-autorp-forward-only are-we-autorp autorp-address is-autorp-address autorp-dis-timer 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-in-cib df-ordinal rp-uptime rp-priority autorp-expires bsr-rp-expires autorp-info-src bsr-info-src is-rp-static static-rp-group-map* **TABLE_grange** *grange-grp grange-masklen is-bidir-grp is-autorp-rp-owner is-bsr-rp-owner is-static-rp-owner*]

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
group	Type: ipaddr Display RP for group address
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
is-bsr-enabled	Type: bool
is-bsr-listen-only	Type: bool
is-bsr-forward-only	Type: bool

are-we-bsr	Type: bool
bsr-address	Type: ipaddr
is-bsr-address	Type: bool
bsr-priority	Type: uinteger
bsr-hash-masklen	Type: uinteger
bs-timer	Type: duration
bsr-uptime	Type: duration
bsr-expires	Type: duration
is-autorp-enabled	Type: bool
is-autorp-listen-only	Type: bool
is-autorp-forward-only	Type: bool
are-we-autorp	Type: bool
autorp-address	Type: ipaddr
is-autorp-address	Type: bool
autorp-dis-timer	Type: duration
autorp-up-time	Type: duration
autorp-expire-time	Type: duration
rp-cand-policy-name	Type: string
bsr-policy-name	Type: string
rp-announce-policy-name	Type: string
rp-discovery-policy-name	Type: string
TABLE_anycast_rp	
anycast-rp-addr	Type: ipaddr
TABLE_arp_rp	
arp-rp-addr	Type: ipaddr
is-rpaddr-local	Type: bool
TABLE_rp	

rp-addr	Type: ipaddr
is-rp-in-cib	Type: bool
df-ordinal	Type: uinteger
rp-uptime	Type: duration
rp-priority	Type: integer
autorp-expires	Type: duration
bsr-rp-expires	Type: duration
autorp-info-src	Type: ipaddr
bsr-info-src	Type: ipaddr
is-rp-static	Type: bool
static-rp-group-map	Type: string
TABLE_grange	
grange-grp	Type: ipaddr
grange-masklen	Type: uinteger
is-bidir-grp	Type: bool
is-autorp-rp-owner	Type: bool
is-bsr-rp-owner	Type: bool
is-static-rp-owner	Type: bool

Command Modes

- /exec

show ip pim statistics

show ip pim statistics [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
uptime	Type: duration
reg-sent	Type: uinteger
reg-rcvd	Type: uinteger
null-reg-sent	Type: uinteger
null-reg-rcvd	Type: uinteger
reg-stop-sent	Type: uinteger
reg-stop-rcvd	Type: uinteger

reg-rcvd-not-rp	Type: uinteger
reg-rcvd-for-ssm	Type: uinteger
reg-rcvd-for-bidir	Type: uinteger
bootstrap-sent	Type: uinteger
bootstrap-rcvd	Type: uinteger
cand-rp-sent	Type: uinteger
cand-rp-rcvd	Type: uinteger
bs-no-nbr	Type: uinteger
bs-border-deny	Type: uinteger
bs-len-errors	Type: uinteger
bs-rpf-failed	Type: uinteger
bs-no-listen	Type: uinteger
candrp-border-deny	Type: uinteger
candrp-no-listen	Type: uinteger
autorp-announce-sent	Type: uinteger
autorp-announce-rcvd	Type: uinteger
autorp-discovery-sent	Type: uinteger
autorp-discovery-rcvd	Type: uinteger
autorp-rpf-failed	Type: uinteger
autorp-border-deny	Type: uinteger
autorp-invalid-type	Type: uinteger
autorp-ttl-expired	Type: uinteger
autorp-no-listen	Type: uinteger
ctrl-no-route	Type: uinteger
data-no-route	Type: uinteger
no-state	Type: uinteger

create-state	Type: uinteger

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
detail	Detailed information
__readonly__	
TABLE_pbr	
interface	Type: string
rmap	Type: string
status	Type: string
vrf_name	Type: string

Command Modes

- /exec

show ip prefix-list (bgp)

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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
prefix-list	Display routes matching the prefix-list
prfxlist-name	Type: string length: 63 Name of prefix-list
test_pol_name	Type: string An existing test-list policy
ipv4	Display BGP information for IPv4 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family

Command Modes

- /exec

show ip prefix-list (rpm)

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	Show detailed information
summary	Show summarized information
prefix-list	List IP prefix lists
ipv4-pfl-name	Type: string pattern: [!-~]* length: 63 Name of prefix-list
ipv4-pfl-cfg-name	Type: string Known prefix-list name
seq	Sequence number
seq-no	Type: uinteger min: 1 max: 4294967294 Sequence number
prefix	Type: ipprefix IP prefix network/length, e.g., 35.0.0.0/8
first-match	Find the first match
longer	Find the more specific entries
__readonly__	
TABLE_ip_pfl	
name	Type: string
seq	Type: uinteger
action	Type: string

rule	Type: string

Command Modes

- /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	Show api values
vrf	Display per-VRF information
all	Display all VRFs
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
__readonly__	
TABLE_ip_pro_vrf	
pro-cntxt-name	Type: string
pro-cntxt-id	Type: longlong
pro-base-tid	Type: integer
pro-auto-disc	Type: string
pro-atuo-add	Type: string
pro-null-bcast	Type: string
auto-punt-bcast	Type: string

static-disc	Type: string
static-def-route	Type: longlong
ip-unreach	Type: longlong
TABLE_pro_api	
api-vrf	Type: string
api-cntxt-id	Type: longlong
api-base-tid	Type: integer
api-ip-addr	Type: ipaddr
api-rtr-id-iod	Type: string
TABLE_iod	
entry-iod	Type: integer
TABLE_local_addr	
local-addr	Type: ipaddr
TABLE_ip_pro_all	
all-pro-cntxt-name	Type: string
all-pro-cntxt-id	Type: longlong

Command Modes

- /exec

show ip 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
received-paths	Display paths stored for soft-reconfig
ipv4	Display BGP information for IPv4 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
private	private

Command Modes

- /exec

show ip rip policy statistics redistribute

show ip rip [**instance** *inst*] **policy statistics redistribute** {**bgp** *as*| {**eigrp**| **isis**| *src-rip*| **ospf**} *tag*| **direct**| **static**} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP routing protocol status
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 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)
as	Type: asn Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
<src-rip>	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
tag	Type: string Process tag
direct	Directly connected routes
static	Static routes
vrf	Display per-VRF information

vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

Command Modes

- /exec

show ip router-id

show ip router-id [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ip	Display IP information
router-id	Display IP router identification
vrf	Display per-VRF information
all	Display all VRFs
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

Command Modes

- /exec

show ip rsvp

show ip rsvp [**__readonly__** [**TABLE_info** *sup-state ha-ena gr-ena hst-ena glb-router-id psr-ena local-epoch start-type restart-type bundle-ena bundle-time bundle-maxsz refresh-intvl refresh-miss rr-rapid-rexmit-ena refred-ena rr-init-rexmit-delay rr-ack-delay rate-limit-ena rate-limit-cap rate-limit-pace-intvl gr-tmr gr-tmr-expiry*] [**TABLE_auth** *auth-ena key-src digest seq-winsize challenge lifetime*] [**TABLE_clients** *clnt-name clnt-sap clnt-type clnt-lxsb clnt-batch-time*]]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
__readonly__	
TABLE_info	
sup-state	Type: string
ha-ena	Type: string
gr-ena	Type: bool
hst-ena	Type: bool
glb-router-id	Type: ipaddr
psr-ena	Type: string
local-epoch	Type: hex
start-type	Type: string
restart-type	Type: string
TABLE_auth	
auth-ena	**Disabled value: 0** **Enabled value: 1**
key-src	Type: string
digest	**HMAC MD5 (16) value: 0** **HMAC SHA-1 (20) value: 1**

seq-winsize	Type: integer
challenge	**Disabled value: 0** **Enabled value: 1**
lifetime	Type: integer
TABLE_clients	
clnt-name	Type: string
clnt-sap	Type: integer
clnt-type	Type: integer
clnt-batch-time	Type: integer
clnt-lxsb	Type: string
bundle-ena	Type: string
bundle-time	Type: integer
bundle-maxsz	Type: integer
refresh-intvl	Type: integer
refresh-miss	Type: integer
refred-ena	Type: string
rr-rapid-rexmit-ena	Type: string
rr-init-rexmit-delay	Type: integer
rr-ack-delay	Type: integer
rate-limit-ena	Type: string
rate-limit-cap	Type: integer
rate-limit-pace-intvl	Type: integer
gr-tmr	Type: string
gr-tmr-expiry	Type: duration

Command Modes

- /exec

show ip rsvp authentication

show ip rsvp authentication [detail] [**interface** *ifname*] [**from** *ip_frm*] [**to** *ip_to*] [**__readonly__** [**TABLE_authentication** *src dst nbr-ip interface mode key-src key-id code* [**TABLE_auth_detail** *lifetime lifetime-left digest challenge* [*tx-seq*] [*rx-seq seq-winsize seq-wincnt*]]]]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
authentication	Display RSVP Security Association information
detail	Display detailed RSVP status
interface	Display RSVP interface information
ifname	Type: interface Display RSVP interface information
from	Starting point of association
ip_frm	Type: ipaddr Address of starting point of association
to	Ending point of association
ip_to	Type: ipaddr Address of ending point of association
__readonly__	
TABLE_authentication	
src	Type: ipaddr
dst	Type: ipaddr
nbr-ip	Type: ipaddr
interface	Type: string
mode	Type: string
key-src	Type: string
key-id	Type: integer

code	Type: string
TABLE_auth_detail	
lifetime	Type: integer
lifetime-left	Type: integer
digest	**HMAC MD5 (16) value: 0** **HMAC SHA-1 (20) value: 1**
challenge	Type: bool
tx-seq	Type: longlong
rx-seq	Type: longlong
seq-winsize	Type: integer
seq-wincnt	Type: integer

Command Modes

- /exec

show ip rsvp counters

show ip rsvp counters [**interface** *ifname*| **teardown**| **authentication**| **all**] [**__readonly__ TABLE_counters** [*rsn-unspec pt-cnt-unspec rt-cnt-unspec rsn-path-tmo pt-cnt-path-tmo rt-cnt-path-tmo rsn-resv-tmo pt-cnt-resv-tmo rt-cnt-resv-tmo rsn-signaled pt-cnt-signaled rt-cnt-signaled rsn-mgmt pt-cnt-mgmt rt-cnt-mgmt rsn-policy pt-cnt-policy rt-cnt-policy rsn-proxy pt-cnt-proxy rt-cnt-proxy rsn-no-rsrc pt-cnt-no-rsrc rt-cnt-no-rsrc rsn-preempted pt-cnt-preempted rt-cnt-preempted rsn-msg-err pt-cnt-msg-err rt-cnt-msg-err rsn-internal pt-cnt-internal rt-cnt-internal rsn-traffic pt-cnt-traffic rt-cnt-traffic rsn-sync-unk pt-cnt-sync-unk rt-cnt-sync-unk rsn-gr-tmo pt-cnt-gr-tmo rt-cnt-gr-tmo rsn-link-nbor-down pt-cnt-link-nbor-down rt-cnt-link-nbor-down rsn-local-perr-psr pt-cnt-local-perr-psr rt-cnt-local-perr-psr rsn-network-perr-psr pt-cnt-network-perr-psr rt-cnt-network-perr-psr rsn-hello-st-tmo pt-cnt-hello-st-tmo rt-cnt-hello-st-tmo rsn-plr-bkup-del pt-cnt-plr-bkup-del rt-cnt-plr-bkup-del rsn-cli-clear pt-cnt-cli-clear rt-cnt-cli-clear rsn-restart-cmd pt-cnt-restart-cmd rt-cnt-restart-cmd rsn-intf-del pt-cnt-intf-del rt-cnt-intf-del*] [*auth_send_authenticated auth_send_authentication_failures auth_send_challenges_rcvd auth_send_challenge_responses_sent auth-send-chall-rcvd auth-send-chall-resp-sent auth-recv-total-err auth-recv-valid-msgs auth_recv_incomplete_sa auth_recv_no_integrity auth_recv_bad_digest auth_recv_wrong_digest_type auth_recv_seq_num_dup auth_recv_seq_num_out_of_range auth_recv_bad_msg_format auth_recv_challenges_sent auth_recv_challenge_timeouts auth_recv_challenges_resent auth_recv_challenge_responses_rcvd auth_recv_during_challenge auth_recv_wrong_challenge_response auth_recv_challenge_response_dup auth_recv_challenge_response_late*] *pkt-rx pkt-tx pkt-rx-err pkt-tx-err path-rx path-tx resv-rx resv-tx patherr-rx patherr-tx resverr-rx resverr-tx pathtear-rx pathtear-tx resvtear-rx resvtear-tx resvconf-rx resvconf-tx rtearconf-rx rtearconf-tx ack-rx ack-tx sref-rx sref-tx hello-rx hello-tx intchal-rx intchal-tx intresp-rx intresp-tx bundle-rx bundle-tx bundle-path-rx bundle-path-tx bundle-resv-rx bundle-resv-tx bundle-patherr-rx bundle-patherr-tx bundle-resverr-rx bundle-resverr-tx bundle-pathtear-rx bundle-pathtear-tx bundle-resvtear-rx bundle-resvtear-tx bundle-ack-rx bundle-ack-tx*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
counters	Display RSVP statistics
interface	Display RSVP interface information
ifname	Type: interface Display RSVP interface information
teardown	Display signaling tear information
authentication	Display RSVP Security Association information
all	Display all information
__readonly__	

TABLE_counters	
rsn-unspec	Type: string
pt-cnt-unspec	Type: uinteger
rt-cnt-unspec	Type: uinteger
rsn-path-tmo	Type: string
pt-cnt-path-tmo	Type: uinteger
rt-cnt-path-tmo	Type: uinteger
rsn-resv-tmo	Type: string
pt-cnt-resv-tmo	Type: uinteger
rt-cnt-resv-tmo	Type: uinteger
rsn-signaled	Type: string
pt-cnt-signaled	Type: uinteger
rt-cnt-signaled	Type: uinteger
rsn-mgmt	Type: string
pt-cnt-mgmt	Type: uinteger
rt-cnt-mgmt	Type: uinteger
rsn-policy	Type: string
pt-cnt-policy	Type: uinteger
rt-cnt-policy	Type: uinteger
rsn-proxy	Type: string
pt-cnt-proxy	Type: uinteger
rt-cnt-proxy	Type: uinteger
rsn-no-rsrc	Type: string
pt-cnt-no-rsrc	Type: uinteger
rt-cnt-no-rsrc	Type: uinteger
rsn-preempted	Type: string
pt-cnt-preempted	Type: uinteger

rt-cnt-preempted	Type: uinteger
rsn-msg-err	Type: string
pt-cnt-msg-err	Type: uinteger
rt-cnt-msg-err	Type: uinteger
rsn-internal	Type: string
pt-cnt-internal	Type: uinteger
rt-cnt-internal	Type: uinteger
rsn-traffic	Type: string
pt-cnt-traffic	Type: uinteger
rt-cnt-traffic	Type: uinteger
rsn-sync-unk	Type: string
pt-cnt-sync-unk	Type: uinteger
rt-cnt-sync-unk	Type: uinteger
rsn-gr-tmo	Type: string
pt-cnt-gr-tmo	Type: uinteger
rt-cnt-gr-tmo	Type: uinteger
rsn-link-nbor-down	Type: string
pt-cnt-link-nbor-down	Type: uinteger
rt-cnt-link-nbor-down	Type: uinteger
rsn-local-perr-psr	Type: string
pt-cnt-local-perr-psr	Type: uinteger
rt-cnt-local-perr-psr	Type: uinteger
rsn-network-perr-psr	Type: string
pt-cnt-network-perr-psr	Type: uinteger
rt-cnt-network-perr-psr	Type: uinteger
rsn-hello-st-tmo	Type: string

pt-cnt-hello-st-tmo	Type: uinteger
rt-cnt-hello-st-tmo	Type: uinteger
rsn-plr-bkup-del	Type: string
pt-cnt-plr-bkup-del	Type: uinteger
rt-cnt-plr-bkup-del	Type: uinteger
rsn-cli-clear	Type: string
pt-cnt-cli-clear	Type: uinteger
rt-cnt-cli-clear	Type: uinteger
rsn-restart-cmd	Type: string
pt-cnt-restart-cmd	Type: uinteger
rt-cnt-restart-cmd	Type: uinteger
rsn-intf-del	Type: string
pt-cnt-intf-del	Type: uinteger
rt-cnt-intf-del	Type: uinteger
auth_send_authenticated	Type: uinteger
auth_send_authentication_failures	Type: uinteger
auth_send_challenges_rcvd	Type: uinteger
auth_send_challenge_responses_sent	Type: uinteger
auth-send-chall-rcvd	Type: uinteger
auth-send-chall-resp-sent	Type: uinteger
auth-recv-total-err	Type: uinteger
auth-recv-valid-msgs	Type: uinteger
auth_recv_incomplete_sa	Type: uinteger
auth_recv_no_integrity	Type: uinteger
auth_recv_bad_digest	Type: uinteger
auth_recv_wrong_digest_type	Type: uinteger

auth_recv_seq_num_dup	Type: uinteger
auth_recv_seq_num_out_of_range	Type: uinteger
auth_recv_bad_msg_format	Type: uinteger
auth_recv_challenges_sent	Type: uinteger
auth_recv_challenge_timeouts	Type: uinteger
auth_recv_challenges_resent	Type: uinteger
auth_recv_challenge_responses_rcvd	Type: uinteger
auth_recv_during_challenge	Type: uinteger
auth_recv_wrong_challenge_response	Type: uinteger
auth_recv_challenge_response_dup	Type: uinteger
auth_recv_challenge_response_late	Type: uinteger
pkt-rx	Type: integer
pkt-tx	Type: integer
pkt-rx-err	Type: integer
pkt-tx-err	Type: integer
path-rx	Type: integer
path-tx	Type: integer
resv-rx	Type: integer
resv-tx	Type: integer
patherr-rx	Type: integer
patherr-tx	Type: integer
resverr-rx	Type: integer
resverr-tx	Type: integer
pathtear-rx	Type: integer
pathtear-tx	Type: integer
resvtear-rx	Type: integer

resvtear-tx	Type: integer
resvconf-rx	Type: integer
resvconf-tx	Type: integer
rtearconf-rx	Type: integer
rtearconf-tx	Type: integer
ack-rx	Type: integer
ack-tx	Type: integer
sref-rx	Type: integer
sref-tx	Type: integer
hello-rx	Type: integer
hello-tx	Type: integer
intchal-rx	Type: integer
intchal-tx	Type: integer
intresp-rx	Type: integer
intresp-tx	Type: integer
bundle-rx	Type: integer
bundle-tx	Type: integer
bundle-path-rx	Type: integer
bundle-path-tx	Type: integer
bundle-resv-rx	Type: integer
bundle-resv-tx	Type: integer
bundle-patherr-rx	Type: integer
bundle-patherr-tx	Type: integer
bundle-resverr-rx	Type: integer
bundle-resverr-tx	Type: integer
bundle-pathtear-rx	Type: integer

bundle-pathtear-tx	Type: integer
bundle-resvtear-rx	Type: integer
bundle-resvtear-tx	Type: integer
bundle-ack-rx	Type: integer
bundle-ack-tx	Type: integer

Command Modes

- /exec

show ip rsvp fast-reroute

show ip rsvp fast-reroute [detail] [**destination** *dest_addr*] [**source** *src_addr*] [**dst-port** *dport-val*] [**src-port** *sport-val*] [**protect-if** *ifname*] [**__readonly__** *total-path active-path ready-path unassign-path unprotect-path* [**TABLE_frr** *type dest tun-id source bkpifid prot-intf nnhop frr-state bkp-ifname* [**TABLE_detail** *mergept-ero mergept bw-prot frr-bw bw-prot-level desrd-bit b-sel-prio bkp-src tail-addr bkp-phy-ifnm bkp-phy-ifaddr bkp-phy-mtu*]]]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
fast-reroute	Display RSVP fast-reroute information
detail	Display detailed RSVP status
destination	Display FRR data based on a destination address
dest_addr	Type: ipaddr Destination address
source	Display FRR data based on a source address
src_addr	Type: ipaddr Source address
dst-port	Display FRR data based on destination port
dport-val	Type: integer Destination Port value
src-port	Display FRR data based on a source port
sport-val	Type: integer Source port value
protect-if	Display FRR data based on protected interface
ifname	Type: interface Protected interface name
__readonly__	
total-path	Type: uinteger

active-path	Type: uinteger
ready-path	Type: uinteger
unassign-path	Type: uinteger
unprotect-path	Type: uinteger
TABLE_frr	
type	Type: string
dest	Type: ipaddr
tun-id	Type: integer
source	Type: ipaddr
bkpifid	Type: hex
nnhop	Type: string
frr-state	Type: string
prot-intf	Type: string
bkp-ifname	Type: string
TABLE_detail	
mergept-ero	Type: ipaddr
mergept	Type: ipaddr
bw-prot	Type: string
frr-bw	Type: uinteger
bw-prot-level	Type: uinteger
desrd-bit	Type: hex
b-sel-prio	Type: uinteger
bkp-src	Type: ipaddr
tail-addr	Type: ipaddr
bkp-phy-ifnm	Type: string
bkp-phy-ifaddr	Type: ipaddr
bkp-phy-mtu	Type: uinteger

Command Modes

- /exec

show ip rsvp hello client lsp

show ip rsvp hello client lsp [detail] [**__readonly__** [**TABLE_hc_lsp_sum** *src-addr dst-addr tun-id lsp-id subgrp-orig subgrp-id lsp-flags* [**TABLE_hc_lsp_detail** *gr-up-nbr gr-down-nbr rr-up-nbr rr-down-nbr incompl-nbr-type*]]]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
client	Display Hello client instances
lsp	Display LSP information
detail	Display detailed RSVP status
__readonly__	
TABLE_hc_lsp_sum	
src-addr	Type: ipaddr
dst-addr	Type: ipaddr
tun-id	Type: integer
lsp-id	Type: integer
subgrp-orig	Type: ipaddr
subgrp-id	Type: integer
lsp-flags	Type: integer
TABLE_hc_lsp_detail	
gr-up-nbr	Type: ipaddr
gr-down-nbr	Type: ipaddr
rr-up-nbr	Type: ipaddr
rr-down-nbr	Type: ipaddr
incompl-nbr-type	Type: string

Command Modes

- /exec

show ip rsvp hello client neighbor

show ip rsvp hello client neighbor [detail] [**__readonly__ TABLE_clnt_nbr_sum** *nbr-addr nbr-type nbr-state hi-state lsp-count*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
client	Display Hello client instances
neighbor	Display information for Hello neighbor
detail	Display detailed RSVP status
__readonly__	
TABLE_clnt_nbr_sum	
nbr-addr	Type: ipaddr
nbr-type	Type: string
nbr-state	Type: string
hi-state	Type: string
lsp-count	Type: integer

Command Modes

- /exec

show ip rsvp hello graceful-restart

show ip rsvp hello graceful-restart [**__readonly__ TABLE_gr** *gr-state gr-mode refesh-interval refresh-misses dscp restart-time recover-time max-recover-wait*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
graceful-restart	Display RSVP graceful-restart intformation
__readonly__	
TABLE_gr	
gr-state	**Disabled value: 0** **Enabled value: 1** **Disabling value: 2**
gr-mode	**none value: 0** **neighbor-helper value: 1** **full value: 2**
refesh-interval	Type: integer
refresh-misses	Type: integer
dscp	Type: hex
restart-time	Type: integer
recover-time	Type: integer
max-recover-wait	Type: integer

Command Modes

- /exec

show ip rsvp hello instance

show ip rsvp hello instance [**interface** *ifname*] [**neighbor** *nbr-addr*] **[detail]** [**__readonly__** [**TABLE_hello_inst** *client-type nbr-ip if-name nbr-state lost-comm-count lsp-count hello-interval* [**TABLE_hi_detail** *src-ip missed-acks-conf ref-interval src-inst nbr-inst rest-time rec-time missed_ack_cnt bad-src-inst-cnt bad-dst-inst-cnt nbr-disabled-hi-cnt msg-rcvd msg-sent msg-supp*]]]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
instance	Display information for Hello instances
interface	Display RSVP interface information
ifname	Type: interface Display RSVP interface information
neighbor	Display information for Hello neighbor
nbr-addr	Type: ipaddr RSVP Neighbor address
detail	Display detailed RSVP status
__readonly__	
TABLE_hello_inst	
client-type	Type: string
nbr-ip	Type: ipaddr
if-name	Type: string
nbr-state	Type: string
lost-comm-count	Type: integer
lsp-count	Type: integer
hello-interval	Type: integer
TABLE_hi_detail	

src-ip	Type: ipaddr
missed-acks-conf	Type: integer
ref-interval	Type: integer
src-inst	Type: hex
nbr-inst	Type: hex
rest-time	Type: integer
rec-time	Type: integer
missed_ack_cnt	Type: uinteger
bad-src-inst-cnt	Type: uinteger
bad-dst-inst-cnt	Type: uinteger
nbr-disabled-hi-cnt	Type: uinteger
msg-rcvd	Type: uinteger
msg-sent	Type: uinteger
msg-supp	Type: uinteger

Command Modes

- /exec

show ip rsvp interface

show ip rsvp interface [*ifname*] [**detail**| **backup-tunnel**] [**__readonly__ TABLE_inter** *if-name ifid iod mpls-ena conf-ena state* [**TABLE_detail** *ifaddr masklen if-flags dyn-type mtu tail-addr phys-if dyn-tmr dyn-expiry dyn-keepalive-flg tcsb-count ip-nbr-cnt in-list-cnt rr-enabled rr-list-max refresh-timer sum-refresh-timer time-refresh-intval max-sr-size max-sr-size-conf sr-rel max-bundle-sz expiry-intval miss-limit expiry-timer bundle-ena rel-ena ack-intval ack-max-size ack-tmr ack-init-rexmit ack-max-conf-size ack-max-msg sig-dscp hello-dscp* [**TABLE_pacing** *pacing-ena pace-tmr pace_intval pace-cap-rate pace-intval-end pace-msg-count pace-msg-defer-count*] [**TABLE_auth** *auth-ena key-src digest seq-winsize challenge*] [**TABLE_hello** *hst-ena hst-intval missed_acks*]]]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
interface	Display RSVP interface information
ifname	Type: interface Display RSVP interface information
backup-tunnel	Display backup tunnel information
detail	Display detailed RSVP status
__readonly__	
TABLE_inter	
if-name	Type: string
iod	Type: integer
ifid	Type: hex
mpls-ena	Type: bool
conf-ena	Type: string
state	Type: string
TABLE_detail	
ifaddr	Type: ipaddr
masklen	Type: uinteger
if-flags	Type: integer

dyn-type	Type: string
mtu	Type: integer
tail-addr	Type: ipaddr
phys-if	Type: string
dyn-tmr	Type: string
dyn-expiry	Type: duration
dyn-keepalive-flg	Type: string
tcsb-count	Type: integer
ip-nbr-cnt	Type: integer
in-list-cnt	Type: integer
rr-enabled	Type: string
rr-list-max	Type: integer
refresh-timer	Type: string
sum-refresh-timer	Type: string
time-refresh-intval	Type: integer
max-sr-size	Type: integer
max-sr-size-conf	Type: integer
sr-rel	Type: string
max-bundle-sz	Type: integer
expiry-timer	Type: string
expiry-intval	Type: integer
miss-limit	Type: integer
bundle-ena	Type: string
rel-ena	Type: string
ack-intval	Type: integer
ack-max-size	Type: integer

ack-max-conf-size	Type: integer
ack-tmr	Type: string
ack-init-rexmit	Type: integer
ack-max-msg	Type: integer
sig-dscp	Type: integer
hello-dscp	Type: integer
TABLE_pacing	
pacing-ena	Type: string
pace-tmr	Type: string
pace_intval	Type: integer
pace-cap-rate	Type: integer
pace-intval-end	Type: integer
pace-msg-count	Type: integer
pace-msg-defer-count	Type: integer
TABLE_auth	
auth-ena	**Disabled value: 0** **Enabled value: 1**
key-src	Type: string
digest	**HMAC MD5 (16) value: 0** **HMAC SHA-1 (20) value: 1**
seq-winsize	Type: integer
challenge	**Disabled value: 0** **Enabled value: 1**
TABLE_hello	
hst-ena	Type: string

hst-intval	Type: integer
missed_acks	Type: integer

Command Modes

- /exec

show ip rsvp session

show ip rsvp session [**destination** *dest_addr*] [**__readonly__** *total-count* **TABLE_session** *type dest-ip dport tunnel-id psb-cnt rsb-cnt reqs pxbs rxbs*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
session	Display RSVP Session information
destination	Display Sessions based on a destination address
dest_addr	Type: ipaddr Destination address
__readonly__	
total-count	Type: uinteger
TABLE_session	
type	**LSP4 value: 0** **P2MP-LSP4 value: 1** **OUNI value: 2** **IPv4 value: 3**
dest-ip	Type: ipaddr
dport	Type: integer
tunnel-id	Type: string
psb-cnt	Type: integer
rsb-cnt	Type: integer
reqs	Type: integer
pxbs	Type: integer
rxbs	Type: integer

Command Modes

- /exec

show ip rsvp signalling rate-limit

show ip rsvp signalling rate-limit [**__readonly__ TABLE_counters** *rlim-ena limit intvl*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
rate-limit	Display rate limit parameters
__readonly__	
TABLE_counters	
rlim-ena	Type: string
limit	Type: integer
intvl	Type: integer

Command Modes

- /exec

show ip rsvp signalling refresh interval

show ip rsvp signalling refresh interval [**__readonly__ TABLE_counters** *interval*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
refresh	Display refresh information
interval	Display interval for refresh messagses
__readonly__	
TABLE_counters	
interval	Type: integer

Command Modes

- /exec

show ip rsvp signalling refresh misses

show ip rsvp signalling refresh misses [**__readonly__ TABLE_counters** *misses*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
refresh	Display refresh information
misses	Display misses required to trigger state timeout
__readonly__	
TABLE_counters	
misses	Type: integer

Command Modes

- /exec

show ip rsvp signalling refresh reduction

show ip rsvp signalling refresh reduction [**__readonly__ TABLE_counters** *rr-ena ackdelay epoch msgid-inuse msgid-alloc msgid-free*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
refresh	Display refresh information
reduction	Display refresh reduction parameters
__readonly__	
TABLE_counters	
rr-ena	Type: string
ackdelay	Type: integer
epoch	Type: hex
msgid-inuse	Type: integer
msgid-alloc	Type: integer
msgid-free	Type: integer

Command Modes

- /exec

show ip stats

show ip stats

Syntax Description

show	Show running system information
ip	Display IP information
stats	Display IP internal stats

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
__readonly__	
TABLE_iptelnetvrf	source interface of telnet given vrf
vrfname	Type: string vrfname
ifname	Type: string ifname

Command Modes

- /exec

show ip telnet source-interface vrf all

show ip telnet source-interface vrf all [**__readonly__** [**TABLE_iptelnet** *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__	
TABLE_iptelnet	source interface of telnet
vrfname	Type: string vrfname
ifname	Type: string ifname

Command Modes

- /exec

show ip tftp source-interface

show ip tftp source-interface [**vrf** {*vrf-name*| *vrf-known-name*}] [**__readonly__** [**TABLE_iptftpvrf** *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
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
__readonly__	
TABLE_iptftpvrf	source interface of tftp given vrf
vrfname	Type: string vrfname
ifname	Type: string ifname

Command Modes

- /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__	
TABLE_iptftp	source interface of tftp
vrfname	Type: string vrfname
ifname	Type: string ifname

Command Modes

- /exec

show ip traffic

show ip traffic [**vrf** {*vrf-name*| *vrf-known-name*}] [**__readonly__ TABLE_vrf** *vrf-name-out* **TABLE_ip_traffic** *rcvd sent consumed fwd-ucast fwd-mcast fwd-label opts-end opts-nop opts-bsec opts-loosesrc-route opts-timestamp opts-esec opts-record-route opts-ump opts-stid opts-strsrc-route opts-alert opts-cipso opts-other 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 frag fragmented out-frag frag-drop cant-frag reasm frag-to 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 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 inrcv inoctet inhdrerr innoroutes inaddrerr innoproto intruncated inforw reasmoks reasmfails reasmreqds indiscards indelivers outnoroutes outrqsts outforw outdiscards outfragreqds outfragoks outfragfails outfragcreates outtxmts outoctet inmcastpkts inmcastoctets outmcastpkts outmcastoctets inbdcastpkts outbdcastpkts*]

Syntax Description

show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_ip_traffic	
rcvd	Type: uinteger
sent	Type: uinteger
consumed	Type: uinteger

fwd-ucast	Type: uinteger
fwd-mcast	Type: uinteger
fwd-label	Type: uinteger
opts-end	Type: uinteger
opts-nop	Type: uinteger
opts-bsec	Type: uinteger
opts-loosesrc-route	Type: uinteger
opts-timestamp	Type: uinteger
opts-esec	Type: uinteger
opts-record-route	Type: uinteger
opts-ump	Type: uinteger
opts-stid	Type: uinteger
opts-strsrc-route	Type: uinteger
opts-alert	Type: uinteger
opts-cipso	Type: uinteger
opts-other	Type: uinteger
bad-csum	Type: uinteger
too-small	Type: uinteger
bad-ver	Type: uinteger
bad-hlen	Type: uinteger
bad-len	Type: uinteger
bad-dest	Type: uinteger
bad-ttl	Type: uinteger
cant-fwd	Type: uinteger
out-drop	Type: uinteger
bad-encap	Type: uinteger

no-route	Type: uinteger
no-proto	Type: uinteger
bad-options	Type: uinteger
frag	Type: uinteger
fragmented	Type: uinteger
out-frag	Type: uinteger
frag-drop	Type: uinteger
cant-frag	Type: uinteger
reasm	Type: uinteger
frag-to	Type: uinteger
tx-redir	Type: uinteger
tx-unreach	Type: uinteger
tx-echo-req	Type: uinteger
tx-echo-reply	Type: uinteger
tx-mask-req	Type: uinteger
tx-mask-rep	Type: uinteger
tx-info-req	Type: uinteger
tx-info-reply	Type: uinteger
tx-param-prob	Type: uinteger
tx-source-quench	Type: uinteger
tx-tstamp-req	Type: uinteger
tx-tstamp-reply	Type: uinteger
tx-time-exceeded	Type: uinteger
tx-router-solicit	Type: uinteger
tx-router-advert	Type: uinteger
rx-redir	Type: uinteger

rx-unreach	Type: uinteger
rx-echo-req	Type: uinteger
rx-echo-reply	Type: uinteger
rx-mask-req	Type: uinteger
rx-mask-rep	Type: uinteger
rx-info-req	Type: uinteger
rx-info-reply	Type: uinteger
rx-param-prob	Type: uinteger
rx-source-quench	Type: uinteger
rx-tstamp-req	Type: uinteger
rx-tstamp-reply	Type: uinteger
rx-time-exceeded	Type: uinteger
rx-router-solicit	Type: uinteger
rx-router-advert	Type: uinteger
rx-format-errors	Type: uinteger
rx-csum-errors	Type: uinteger
inrcv	Type: uinteger
inoctet	Type: uinteger
inhdrerr	Type: uinteger
innoroutes	Type: uinteger
inaddrerr	Type: uinteger
innoproto	Type: uinteger
intruncated	Type: uinteger
inforw	Type: uinteger
reasmoks	Type: uinteger
reasmfails	Type: uinteger

reasmreqds	Type: uinteger
indiscards	Type: uinteger
indelivers	Type: uinteger
outnoroutes	Type: uinteger
outrqsts	Type: uinteger
outforw	Type: uinteger
outdiscards	Type: uinteger
outfragreqds	Type: uinteger
outfragoks	Type: uinteger
outfragfails	Type: uinteger
outfragcreates	Type: uinteger
outtxmts	Type: uinteger
outoctet	Type: uinteger
inmcastpkts	Type: uinteger
inmcastoctets	Type: uinteger
outmcastpkts	Type: uinteger
outmcastoctets	Type: uinteger
inbdcastpkts	Type: uinteger
outbdcastpkts	Type: uinteger

Command Modes

- /exec

show ip txlist

show ip txlist {**list**| **member**}

Syntax Description

show	Show running system information
ip	Display IP information
txlist	Display IP txlist information
list	Display IP txlist main linkage
member	Display IP txlist active member linkage

Command Modes

- /exec

show ip verify source

show ip verify source [**interface** *intf6*] [**__readonly__ TABLE_verify_entry** *verify_intf verify_intf_ipsg_val verify_ipsg_enable_intfs verify_hdr 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	Interface
verify_intf_ipsg_val	Type: uinteger IP source guard value (enabled or disable)
verify_ipsg_enable_intfs	Type: string IP source guard enabled interfaces names
intf6	Type: interface
__readonly__	Read only
TABLE_verify_entry	
verify_filter_mode	Type: uinteger
verify_intf	Type: interface
verify_hdr	Type: uinteger
verify_ip_addr	Type: ipaddr
verify_mac_addr	Type: ethernet
verify_vlan	Type: vlan

Command Modes

- /exec

show ip vrf

show ip mroute [bitfield] [detail] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]| **show ip mroute rp** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]| **show ip mroute** [*group*] **summary** [**software-forwarded**| **rpf-failed**] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]| **show ip mroute summary** [**count**| **software-forwarded**| **rpf-failed**] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]| **show ip mroute** {*source group*| {*group* [*source*]| *group* **shared-tree**| *group* **source-tree**}| **shared-tree**| **source-tree**} {**[flags]**| **[detail]**| [**summary** [**software-forwarded**| **rpf-failed**]| **bitfield**]} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_vrf** *vrf-name* **TABLE_addr** *mcast-addrs bidir uptime pending if-name rpf-nbr internal rpf-nbr-uptime oif-count* **TABLE_mpib** *mpib-name stale-route* **TABLE_oif** *oif-name oif-uptime mpib-refcount* **TABLE_oif_mpib** *oif-mpib-name stale-oif*]

Syntax Description

show	Show running system information
ip	Display IP information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
mroute	Display IP multicast routing table
summary	Display route counts and packet rates
shared-tree	Display route for *,G entries
source-tree	Display route for S,G entries
software-forwarded	Display software switched route counts only
rpf-failed	Display RPF failure statistics
rp	Display RP routes (RP, 0.0.0.0/32)
group	Type: ipaddr Display multicast group/source address for route

source	Type: ipaddr Display multicast group/source address for route
count	Display route counts only
bitfield	Display bitfield details
detail	Display detailed route attributes
flags	Display detailed route attributes
__readonly__	
TABLE_vrf	
vrf-name	Type: vrf
TABLE_addr	
mcast-addrs	Type: string
bidir	Type: bool
pending	Type: bool
uptime	Type: duration
if-name	Type: interface
rpf-nbr	Type: ipaddr
internal	Type: bool
rpf-nbr-uptime	Type: duration
oif-count	Type: integer
TABLE_mpib	
mpib-name	Type: string
stale-route	Type: bool
TABLE_oif	
oif-name	Type: string
oif-uptime	Type: duration
mpib-refcount	Type: integer
TABLE_oif_mpib	
oif-mpib-name	Type: string

stale-oif	Type: bool

Command Modes

- /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
rmap-name	Type: string pattern: [!-~]* length: 63 Route-map name
rmap-name	Type: string Known route-map name
prefix-list	Display routes matching the prefix-list
prfxlist-name	Type: string length: 63 Name of prefix-list
filter-list	Display routes matching the filter-list
fltrlist-name	Type: string length: 63 Name of filter-list
community-list	Display routes matching the community-list
commlist-name	Type: string length: 63 Name of community-list
extcommunity-list	Display routes matching the extcommunity-list

extcommlist-name	Type: string length: 63 Name of extcommunity-list
test_pol_name	Type: string An existing test-list policy
exact-match	Exact match of the communities

Command Modes

- /exec

show ipv6 (bgp)

show ipv6 {**bgp**| **mbgp**} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] {**rib-install**| **rib-uninstall**| **rib-pending**} [**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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ipv6	Display BGP information for IPv6 address family
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Modes

- /exec

show ipv6 (am)

show ipv6 {**adjacency**| **neighbor**} [*interface* **[summary]**| *ipv6-addr* **[detail]**| **detail**| **summary**| **non-best**| **[throttle] statistics**] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** [*invalid_pkt_cnt*] [*invalid_byte_cnt*] [*global_drop_pkt_cnt*] [*global_drop_byte_cnt*] [*global_punt_pkt_cnt*] [*global_punt_byte_cnt*] [*global_glean_pkt_cnt*] [*global_glean_byte_cnt*] [*glean_pkt_cnt*] [*glean_byte_cnt*] [*normal_pkt_cnt*] [*normal_byte_cnt*] [*last_updated*] [*count-static*] [*count-dynamic*] [*count-others*] [*count-throttle*] [*count-total*] [**TABLE_vrf** *vrf-name-out* [**TABLE_afi** *afi count* [**TABLE_adj** *intf-out ipv6-addr* [*phy-intf*] *time-stamp mac pref owner* [*pkt-count*] [*byte-count*] [*is-best*] [*is-thrtld*]]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
neighbor	Show IPv6 neighbor entry
interface	Type: interface Display specific interface adjacencies only
ipv6-addr	Type: ipv6addr IPV6 source address
detail	Show detail information of adjacency entries
summary	Show adjacency summary
non-best	Show both best/non-best entries
throttle	Throttle
statistics	Show adjacency statistics
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

all	Show adjacency entries for all vrfs
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
invalid_pkt_cnt	Type: uinteger
invalid_byte_cnt	Type: uinteger
global_drop_pkt_cnt	Type: uinteger
global_drop_byte_cnt	Type: uinteger
global_punt_pkt_cnt	Type: uinteger
global_punt_byte_cnt	Type: uinteger
global_glean_pkt_cnt	Type: uinteger
global_glean_byte_cnt	Type: uinteger
glean_pkt_cnt	Type: uinteger
glean_byte_cnt	Type: uinteger
normal_pkt_cnt	Type: uinteger
normal_byte_cnt	Type: uinteger
last_updated	Type: string
count-static	Type: uinteger
count-dynamic	Type: uinteger
count-others	Type: uinteger
count-throttle	Type: uinteger
count-total	Type: uinteger
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2**
count	Type: uinteger

TABLE_adj	
intf-out	Type: string
phy-intf	Type: string
time-stamp	Type: string
ipv6-addr	Type: ipv6addr
mac	Type: ethernet
pref	Type: uinteger
owner	Type: string
pkt-count	Type: uinteger
byte-count	Type: uinteger
is-best	Type: string
is-thrtld	Type: string

Command Modes

- /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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ipv6-prefix	Type: ipv6prefix Display one particular IPv6 prefix from the BRIB in detail
longer-prefixes	Display route and more specific routes

Command Modes

- /exec

show ipv6 cache

show ipv6 cache {{**brief**| **detail**}| **interface** [*intf*]} **[operational]**

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
cache	Display ipv6 cache
interface	Display ipv6 related interface information
brief	Display summary of ipv6 interface status and configuration
detail	Display detailed information of ipv6 interface status and configuration
operational	Display only interfaces that are administratively enabled
intf	Type: interface Interface name to display

Command Modes

- /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
client-name	Type: string Display information for a single IPv6 client
__readonly__	
TABLE_ipv6_client	
cli-name	Type: string
cli-stat	Type: string
cli-pid	Type: integer
cli-ext-pid	Type: integer
protocol	Type: integer
pib-index	Type: integer
cli-uuid	Type: integer
rou-vrf	Type: integer
rou-flg	Type: integer
ctrl-sap	Type: integer
data-sap	Type: integer
ipc-ctrl-mq	Type: integer
ipc-ctrl-fail	Type: integer
ipc-data-mq	Type: integer
ipc-data-fail	Type: integer

if-ext-ind	Type: integer
recv-fn	Type: string
recv-hex	Type: hex

Command Modes

- /exec

show ipv6 community

show ipv6 {**bgp**| **mbgp**} [**vrf** {*vrf-name*| *vrf-known-name*| **ALL_VRFS_012345678901234**}] **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
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv6	Display BGP information for IPv6 address family
vrf	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
community	Display routes matching the BGP communities
regexp-str	Type: string Regular expression to match the communities
comm-id	Type: community BGP community value

wellknown-id	BGP wellknown community **no-export value: 1** Do not export to next AS (well-known community) **no-advertise value: 2** Do not advertise to any peer (well-known community) **no-export-subconfed value: 3** Do not send outside local AS (well known community)
exact-match	Exact match of the communities

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
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	Display routes matching the AS path regular expression
regexp-str	Type: string Regular expression to match the AS paths

Command Modes

- /exec

show ipv6 dhcp relay

show ipv6 dhcp relay [**interface** *intf-range*] [**__readonly__** *relay_service_enable relay_vpn_enable relay_cisco_option_enable gbl_src_intf interface-name intf_src_intf intf_header relay_address vrf_name dst_intf*]

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	DHCPv6 relay address of the interface
intf-range	Type: interface-mrange interface
__readonly__	Read only
relay_service_enable	**enabled value: 1** **disabled value: 0**
relay_vpn_enable	**enabled value: 1** **disabled value: 0**
relay_cisco_option_enable	**enabled value: 1** **disabled value: 0**
gbl_src_intf	Type: interface interface name
interface-name	Type: interface interface name
intf_src_intf	Type: interface interface name

intf_header	Type: uinteger
relay_address	Type: ipv6addr helper address
vrf_name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
dst_intf	Type: interface interface name

Command Modes

- /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 tx_pkts rx_pkts drops msg_type_str_total server_stats_hdr 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_client_reply drop_no_ipv6_addr drop_intf_error drop_vpn_disabled drop_ipv6_extn_hdrs_presence*]

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	input interface
intf	Type: interface interface
server-ip	Server address
ip-addr-val	Type: ipv6addr IPv6 relay address
use-vrf	server address VRF membership
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf length: 32 VRF name
interface	Destination interface for the server address
dest-interface	Type: interface Destination interface
__readonly__	Read only

msg_stats_hdr	Type: uinteger
msg_type_str	Type: string
tx_pkts	Type: uinteger
rx_pkts	Type: uinteger
drops	Type: uinteger
msg_type_str_total	Type: uinteger
server_stats_hdr	Type: uinteger
server_helper_addr	Type: uinteger
server_vrf	Type: string
server_intf	Type: interface interface name
server_requests	Type: uinteger
server_responses	Type: uinteger
drop_hdr	Type: uinteger
drop_relay_disable	Type: uinteger
drop_max_hops	Type: uinteger
drop_validation_fails	Type: uinteger
drop_unknown_op_intf	Type: uinteger
drop_bad_context	Type: uinteger
drop_opt_insert_fail	Type: uinteger
drop_client_reply	Type: uinteger
drop_no_ipv6_addr	Type: uinteger
drop_intf_error	Type: uinteger
drop_vpn_disabled	Type: uinteger
drop_ipv6_extn_hdrs_presence	Type: uinteger

Command Modes

- /exec

show ipv6 eigrp route-map statistics redistribute

show ipv6 eigrp [*eigrp-ptag*] **route-map statistics redistribute** {**bgp** *as*| {**eigrp**| **isis**| **ospfv3**| **rip**} *tag*| **static**| **direct**| **amt**} [**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
eigrp	Display EIGRP status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)

as	Type: asn Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Type: string Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
__readonly__	
TABLE_asn	
asn	Type: uinteger
TABLE_vrf	
vrf	Type: string
TABLE_rmap	
name	Type: string
action	Type: string
seq_num	Type: uinteger
TABLE_cmd	
command	Type: string
compare_count	Type: uinteger
match_count	Type: uinteger
total_accept_count	Type: uinteger
total_reject_count	Type: uinteger

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
regexp-str	Type: string Regular expression to match the extcommunities
ext-comm-gen-trans	Type: community Extcommunity number aa4:nn format
ext-comm-gen-nontrans	Type: community Extcommunity number aa4:nn format

exact-match	Exact match of the extcommunities

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
flap-statistics	Display route flap statistics
ipv6-prefix	Type: ipv6prefix Display flap statistics for one prefix
ipv6	Display BGP information for IPv6 address family

Command Modes

- /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
source-addr	Type: ipv6addr IPv6 address format: aaaa:bbbb:cccc:dddd:eeee:ffff:gggg:hhhh, aaaa::bbbb
__readonly__	
TABLE_ipv6_frag	
TABLE_ipv6_each_q	
ipv6-src	Type: ipv6addr
ipv6-dest	Type: ipv6addr
frag-id	Type: hex
frag-off	Type: integer
m-flag	Type: string
nxt-header	Type: integer
pay-load	Type: integer
expires	Type: integer

Command Modes

- /exec

show ipv6 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-prohib rv-admin-prohib 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 other-path 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	Display Neighbor Discovery interface information
global	Show ICMPv6/ND global variables
traffic	Display ICMPv6 software processed traffic statistics
__readonly__	
TABLE_icmpv6_global_stat	
st-total	Type: longlong
rv-total	Type: longlong
st-err	Type: longlong
rv-err	Type: longlong
st-int-drp-cnt	Type: longlong
rv-int-drp-cnt	Type: longlong
st-adj-nt-recov-am-ha	Type: longlong
rv-adj-nt-recov-am-ha	Type: longlong
st-pkt-allow-inv-ttl-vpc	Type: longlong
rv-pkt-allow-inv-ttl-vpc	Type: longlong
st-drp-src-mac-own	Type: longlong

rv-drp-src-mac-own	Type: longlong
st-drp-tgt-ip-not-own	Type: longlong
rv-drp-tgt-ip-not-own	Type: longlong
st-drp-src-ip-not-own	Type: longlong
rv-drp-src-ip-not-own	Type: longlong
st-dest-unreach	Type: longlong
rv-dest-unreach	Type: longlong
st-admin-prohib	Type: longlong
rv-admin-prohib	Type: longlong
st-time-exceed	Type: longlong
rv-time-exceed	Type: longlong
st-para-pbms	Type: longlong
rv-para-pbms	Type: longlong
st-echo-req	Type: longlong
rv-echo-req	Type: longlong
st-echo-reply	Type: longlong
rv-echo-reply	Type: longlong
st-redirect	Type: longlong
rv-redirect	Type: longlong
st-pkt-too-big	Type: longlong
rv-pkt-too-big	Type: longlong
st-rtr-adver	Type: longlong
rv-rtr-adver	Type: longlong
st-rtr-solicit	Type: longlong
rv-rtr-solicit	Type: longlong
st-nei-adver	Type: longlong

rv-nei-adver	Type: longlong
st-nei-solicit	Type: longlong
rv-nei-solicit	Type: longlong
fast-path-pkts	Type: longlong
fastpath-disable	Type: longlong
other-path	Type: longlong
dup-rtr-ra-recvd	Type: longlong
rv-dup-rtr-ra-recvd	Type: longlong
TABLE_icmpv6_mld_stat	
st-v1-queries	Type: longlong
rv-v1-queries	Type: longlong
st-v2-queries	Type: longlong
rv-v2-queries	Type: longlong
st-v1-reports	Type: longlong
rv-v1-reports	Type: longlong
st-v2-reports	Type: longlong
rv-v2-reports	Type: longlong
st-v1-leaves	Type: longlong
rv-v1-leaves	Type: longlong

Command Modes

- /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
interface	Type: interface Interface name to display
detail	Display detailed information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
icmpv6-vrftype	Type: string
icmpv6-cxt-name	Type: string
TABLE_icmpv6_all_int	
TABLE_icmpv6_one_int	

icmpv6-ipv6-addr	Type: ipv6addr
time-stamp-icmpv6	Type: string
icmpv6-mac	Type: string
icmpv6-state	Type: string
icmpv6-short-name	Type: string
phy-int-short-name	Type: string

Command Modes

- /exec

show ipv6 icmp ndp

show ipv6 icmp ndp

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
ndp	Displaysipv6 neighbor by looking at the top level pt

Command Modes

- /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	Vlan id
vlan-id	Type: integer Show information for specified vlan
__readonly__	
vlan-adj-cnt	Type: integer
icmpv6-sync-adj-cnt	Type: integer
TABLE_icmpv6_vlan_list	
adj-vlan-id	Type: integer
off-adj-ip-addr	Type: ipv6addr
icmpv6-time-stamp	Type: string
icmpv6-mac-addr	Type: string
off-adj-flags	Type: integer

Command Modes

- /exec

show ipv6 icmp process sdb

show ipv6 icmp process sdb

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
process	Display process information
sdb	Dump IPv6 sdb in a file

Command Modes

- /exec

show ipv6 icmp snmp pttree

show ipv6 icmp snmp pttree {**static**| **dynamic**| **virtual**| **typeall**} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
snmp	Show only snmp pttree
pttree	Petricia tree
static	show only static adjacencies in pt tree
dynamic	show only dynamic adjacencies in pt tree
virtual	show only virtual adjacencies in pt tree
typeall	show all adjacencies in pt tree
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

Command Modes

- /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*] *grp-id protocol-one-int client-uuid client-state-act client-in-use* **TABLE_vip_list** *virt-ipv6 virt-mac cxt_name cxt_id* [*last-solocit-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	Display detailed information
global	Display global virtual ipv6 addresses
pt-tree	Display link-local virtual ipv6 addresses pt-tree information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	

TABLE_pt_tree	
v-ipv6-addr	Type: ipv6addr
v-mac-addr	Type: string
v-interface	Type: interface
v-client-state	Type: string
TABLE_vrf_all	
TABLE_glo_vrf	
group-id	Type: integer
protocol-vrf	Type: string
cli-uuid	Type: hex
vaddr-action	Type: string
vrf-interface	Type: interface
v-ipv6-addr-one	Type: ipv6addr
vaddr-mac	Type: string
cxt-name	Type: string
cxt-id	Type: integer
TABLE_one_int	
lcache-inter	Type: interface
cxt-name-int	Type: string
cxt_id-int	Type: longlong
grp-id	Type: integer
protocol-one-int	Type: string
client-uuid	Type: hex
client-state-act	Type: string
client-in-use	Type: integer
TABLE_vip_list	
virt-ipv6	Type: ipv6addr

virt-mac	Type: string
cxt_name	Type: string
cxt_id	Type: longlong
last-solocit-st	Type: string
last-nei-ad-st	Type: string
last-rtr-adv-st	Type: string
nxt-rtr-ad-st	Type: string
icmpv6-addr	Type: ipv6addr
vmac-addr	Type: string
st-total	Type: longlong
rv-total	Type: longlong
st-err	Type: longlong
rv-err	Type: longlong
st-int-dwn-drp	Type: longlong
rv-int-dwn-drp	Type: longlong
st-adj-nt-recov-am	Type: longlong
rv-adj-nt-recov-am	Type: longlong
st-pkt-allow-inv-ttl	Type: longlong
rv-pkt-allow-inv-ttl	Type: longlong
st-pkt-drp-src-mac-own	Type: longlong
rv-pkt-drp-src-mac-own	Type: longlong
st-pkt-drp-tgt-not-own	Type: longlong
rv-pkt-drp-tgt-not-own	Type: longlong
st-pkt-drp-src-not-own	Type: longlong
rv-pkt-drp-src-not-own	Type: longlong
st-dest-unreach	Type: longlong

rv-dest-unreach	Type: longlong
st-admin-prohi	Type: longlong
rv-admin-prohi	Type: longlong
st-time-exceed	Type: longlong
rv-time-exceed	Type: longlong
st-patr-pbm	Type: longlong
rv-patr-pbm	Type: longlong
st-echo-req	Type: longlong
rv-echo-req	Type: longlong
st-echo-reply	Type: longlong
rv-echo-reply	Type: longlong
st-dup-ra	Type: longlong
rv-dup-ra	Type: longlong
st-redirect	Type: longlong
rv-redirect	Type: longlong
st-pkt-too-big	Type: longlong
rv-pkt-too-big	Type: longlong
st-rtr-adver	Type: longlong
rv-rtr-adver	Type: longlong
st-rtr-solicit	Type: longlong
rv-rtr-solicit	Type: longlong
st-nei-adver	Type: longlong
rv-nei-adver	Type: longlong
st-nei-solicit	Type: longlong
rv-nei-solicit	Type: longlong

Command Modes

- /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-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*]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vpc-statistics	Show vPC global statistics
__readonly__	
TABLE_icmpv6_vpc_stats	icmpv6 Vpc statistics
icmpv6-pro-drp-pull-disable	Type: integer
icmpv6-pro-drp-push-msg-disable	Type: integer
icmpv6-pro-ign-snd-pull-disabe	Type: integer
icmpv6-ign-snd-push-disable	Type: integer
icmpv6-drp-im-fail	Type: integer
icmpv6-drp-mcecm-fail	Type: integer
icmpv6-drp-invalid-pc-iod	Type: integer
icmpv6-drp-pt-lookup-fail	Type: integer
icmpv6-drp-resp-fail-no-mct	Type: integer
icmpv6-drp-resp-fail	Type: integer
icmpv6-resp-sent	Type: integer

icmpv6-resp-recvd	Type: integer
icmpv6-resp-recv-err	Type: integer
icmpv6-rcvd-msg	Type: integer
icmpv6-send-fail	Type: integer
icmpv6-cfs-rel-dlvry-fail	Type: integer
icmpv6-cfs-rel-dnvry-suc	Type: integer
icmpv6-drp-pt-add-fail	Type: integer
icmpv6-drp-no-mem	Type: integer
icmpv6-drp-tmr-cre-fail	Type: integer
icmpv6-drp-add-adj-fail	Type: integer
icmpv6-off-drp-pt-lookup-fail	Type: integer
icmpv6-dont-drp-vlan-mismat	Type: integer
icmpv6-drp-svi-invalid	Type: integer
icmpv6-dont-drop-sv-down	Type: integer
icmpv6-drp-mct-down	Type: integer
icmpv6-drp-ctxt-invalid	Type: integer
icmpv6-drp-vrf-invalid	Type: integer
icmpv6-drp-l3addr-invalid	Type: integer
icmpv6-drp-l3addr-sanity-fail	Type: integer
icmpv6-drp-mac-sanity-fail	Type: integer
icmpv6-own-rtr-mac	Type: integer
icmpv6-drp-own-ipv6addr	Type: integer
icmpv6-drp-own-vipv6add	Type: integer
icmpv6-drp-adj-fail	Type: integer
icmpv6-drp-subnet-mismatch	Type: integer
icmpv6-drp-adj-exist	Type: integer

icmpv6-dont-drp-ip-not-enable	Type: integer
icmpv6-drp-total-cnt	Type: integer
icmpv6-dont-drop-total-cnt	Type: integer
icmpv6-add-adj	Type: integer
icmpv6-del-adj	Type: integer
icmpv6-adj-already-exist	Type: integer

Command Modes

- /exec

show ipv6 icmp vrf

show ipv6 {**icmp**| **nd**} **interface** [*interface*] {[**prefix [full]**]| **[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 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*]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
nd	Display Neighbor Discovery interface information
mld	Display Multicast Listener Discovery information
interface	Display ICMPv6 related interface information

prefix	Display List of ICMPv6 RA prefix
full	Display Complete prefix information
detail	Display ICMPv6 related interface information in detail
brief	Display ICMPv6 related interface information in brief
interface	Type: interface Interface name to show
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_intf	
intf-name	Type: interface
proto-state	Type: bool
link-state	Type: bool
admin-state	Type: bool
addr	Type: ipv6addr
subnet	Type: ipv6prefix
link-local-addr	Type: ipv6addr
icmpv6-disabled	Type: bool
last-ns-sent	Type: string
last-na-sent	Type: string
last-ra-sent	Type: string
next-na-sent	Type: string
ra-min-interval	Type: string
ra-interval	Type: string
set-m-flag	Type: bool
set-o-flag	Type: bool
current-hop-limit	Type: uinteger

mtu	Type: uinteger
router-lifetime	Type: uinteger
reachable-time	Type: uinteger
retrans-timer	Type: uinteger
ns-interval	Type: uinteger
send-redirect	Type: bool
send-unreachables	Type: bool
mld-disabled	Type: bool
mld-querier	Type: ipv6addr
mld-entry-count	Type: uinteger
mld-config-version	Type: uinteger
mld-querier-version	Type: string
mld-host-version	Type: uinteger
mld-query-timer	Type: string
mld-querier-expiry	Type: uinteger
mld-qi	Type: uinteger
mld-config-qi	Type: uinteger
mld-query-mrt	Type: uinteger
mld-config-query-mrt	Type: uinteger
mld-startup-qi	Type: uinteger
mld-config-startup-qi	Type: uinteger
mld-startup-qc	Type: uinteger
mld-config-last-member-mrt	Type: uinteger
mld-last-member-qc	Type: uinteger
mld-group-timeout	Type: uinteger
mld-config-group-timeout	Type: uinteger

mld-querier-timeout	Type: uinteger
mld-config-querier-timeout	Type: uinteger
mld-config-unsol-rpt-interval	Type: uinteger
mld-qrv	Type: uinteger
mld-config-robustness-variable	Type: uinteger
mld-config-rpt-link-local	Type: bool
mld-refcount	Type: uinteger
static-group-map	Type: string
join-group-map	Type: string
ra-sent	Type: uinteger
ra-rec	Type: uinteger
rs-sent	Type: uinteger
rs-rec	Type: uinteger
na-sent	Type: uinteger
na-rec	Type: uinteger
ns-sent	Type: uinteger
ns-rec	Type: uinteger
redirect-sent	Type: uinteger
redirect-rec	Type: uinteger
msg-sent	Type: uinteger
msg-rec	Type: uinteger
errors-sent	Type: uinteger
erros-rec	Type: uinteger
ifdown-sent	Type: uinteger
ifdown-rec	Type: uinteger
am-ha-not-ready	Type: uinteger

allow-mct-ttl	Type: uinteger
our-own-mac	Type: uinteger
tgt-not-us	Type: uinteger
dest-unreachs-sent	Type: uinteger
dest-unreachs-rec	Type: uinteger
admin-prohibs-sent	Type: uinteger
admin-prohibs-rec	Type: uinteger
time-excds-sent	Type: uinteger
time-excds-rec	Type: uinteger
parm-problems-sent	Type: uinteger
parm-problems-rec	Type: uinteger
echos-sent	Type: uinteger
echos-rec	Type: uinteger
echo-replies-sent	Type: uinteger
echo-replies-rec	Type: uinteger
pkt-toobigs-sent	Type: uinteger
pkt-toobigs-rec	Type: uinteger
fastpath-pkt-recv	Type: uinteger
fastpath-disable-pkt-recv	Type: uinteger
fastpath-ignore-pkt-recv	Type: uinteger
v1-queries-sent	Type: uinteger
v1-queries-rec	Type: uinteger
v2-queries-sent	Type: uinteger
v2-queries-rec	Type: uinteger
v1-reports-sent	Type: uinteger
v1-reports-rec	Type: uinteger

v2-reports-sent	Type: uinteger
v2-reports-rec	Type: uinteger
v1-leaves-sent	Type: uinteger
v1-leaves-rec	Type: uinteger
v2-leaves-sent	Type: uinteger
v2-leaves-rec	Type: uinteger
uptime	Type: string
mld-config-il	Type: bool

Command Modes

- /exec

show ipv6 interface

show ipv6 interface [**brief [include-secondary]**| [*interface*| *ipv6-addr*] **[detail]**] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** [**TABLE_vrf** *vrf-name-out*] [**TABLE_intf** *intf-name* [*proto-state*] [*link-state*] [*admin-state*] [*iod*] [*addr*] [*prefix*] [**TABLE_sec_addr** [*sec-prefix*]] [*linklocal-addr*] [*linklocal-configured*] [*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*] [*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*]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
brief	Display summary of IPv6 status and configuration
include-secondary	Display summary of all IPv6 addresses
interface	Type: interface Interface name to display
detail	Display detailed IPv6 interface information
ipv6-addr	Type: ipv6addr IPv6 address format: aaaa:bbbb:cccc:dddd:eeee:ffff:gggg:hhhh, aaaa::bbbb
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name

vrf-known-name	Type: vrf Known VRF name
all	Display all VRFs
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_intf	
intf-name	Type: interface
proto-state	Type: string
link-state	Type: string
admin-state	Type: string
iod	Type: uinteger
addr	Type: ipv6addr
prefix	Type: string
TABLE_sec_addr	
sec-prefix	Type: string
linklocal-addr	Type: ipv6addr
linklocal-configured	Type: string
ipv6-disabled	Type: string
mrouting-enabled	Type: string
mgroup-locally-joined	Type: string
TABLE_maddr	
m-addr	Type: ipv6addr
m-addr-refcnt	Type: uinteger
TABLE_sg	
sg-saddr	Type: ipv6addr
sg-maddr	Type: ipv6addr
sg-refcnt	Type: uinteger

mtu	Type: uinteger
global-in-pcl-configured	Type: bool
global-in-pcl-name	Type: string
global-in-pcl-pending	Type: bool
global-out-pcl-configured	Type: bool
global-out-pcl-name	Type: string
global-out-pcl-pending	Type: bool
in-pcl-configured	Type: bool
in-pcl-name	Type: string
in-pcl-pending	Type: bool
out-pcl-configured	Type: bool
out-pcl-name	Type: string
out-pcl-pending	Type: bool
urpf-mode	**none value: 0** **loose value: 1** **strict value: 2**
ipv6-lstype	**none value: 0** **default value: 1** **per-packet value: 2**
stats-last-reset	Type: string
upkt-fwd	Type: uinteger
upkt-orig	Type: uinteger
upkt-consumed	Type: uinteger
ubyte-fwd	Type: uinteger
ubyte-orig	Type: uinteger

ubyte-consumed	Type: uinteger
mpkt-fwd	Type: uinteger
mpkt-orig	Type: uinteger
mpkt-consumed	Type: uinteger
mbyte-fwd	Type: uinteger
mbyte-orig	Type: uinteger
mbyte-consumed	Type: uinteger
upkt-in-acc	Type: uinteger
upkt-in-rej	Type: uinteger
ubyte-in-acc	Type: uinteger
ubyte-in-rej	Type: uinteger
mpkt-in-acc	Type: uinteger
mpkt-in-rej	Type: uinteger
mbyte-in-acc	Type: uinteger
mbyte-in-rej	Type: uinteger
upkt-out-acc	Type: uinteger
upkt-out-rej	Type: uinteger
ubyte-out-acc	Type: uinteger
ubyte-out-rej	Type: uinteger
mpkt-out-acc	Type: uinteger
mpkt-out-rej	Type: uinteger
mbyte-out-acc	Type: uinteger
mbyte-out-rej	Type: uinteger
hw-upkt-sent	Type: uinteger
hw-upkt-recv	Type: uinteger
hw-ubyte-sent	Type: uinteger

hw-ubyte-recv	Type: uinteger
hw-mpkt-sent	Type: uinteger
hw-mpkt-recv	Type: uinteger
hw-mbyte-sent	Type: uinteger
hw-mbyte-recv	Type: uinteger
hw-upkt-drop	Type: uinteger
hw-ubyte-drop	Type: uinteger
hw-mpkt-drop	Type: uinteger
hw-mbyte-drop	Type: uinteger
hw-mpkt-rpdrop	Type: uinteger
hw-mbyte-rpdrop	Type: uinteger
hw-mpkt-dfdrop	Type: uinteger
hw-mbyte-dfdrop	Type: uinteger

Command Modes

- /exec

show ipv6 interface global

show ipv6 interface global

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
global	Show IPv6 global parameters

Command Modes

- /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 *Not available in this release.*
data-cache	Display EID-to-RLOC data cache mapping in this ITR
eid	Type: ipaddr Display mapping for IPv6 destination EID
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

Command Modes

- /exec

show ipv6 local-pt

show ipv6 local-pt [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local-pt	Display IPv6 local address pt data structure
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display all VRFs

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_pbr	
interface	Type: string
rmap	Type: string
status	Type: string
vrf_name	Type: string

Command Modes

- /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	Display ICMPv6 information
mld	Display Multicast Listener Discovery information
groups	Display MLD attached group membership information
source	Type: ipv6addr Source IP address
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
group	Type: ipv6addr Multicast IPv6 address of group to display
interface	Type: interface Display group membership on interface name
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string

entry-count	Type: uinteger
TABLE_group	
group-out	Type: ipv6addr
TABLE_intf	
intf-name	Type: interface
icmpv6-disabled	Type: bool
mld-source	Type: ipv6addr
mld-group	Type: ipv6addr
mld-source-unspec	Type: bool
mld-static	Type: bool
mld-local-group	Type: bool
mld-translated	Type: bool
mld-uptime	Type: uinteger
mld-expire	Type: uinteger

Command Modes

- /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	Display ICMPv6 information
mld	Display Multicast Listener Discovery information
local-groups	Display MLD local group membership information
interface	Type: interface Display group membership on interface name
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
vrf	Type: vrf
TABLE_entry	
group-addr	Type: ipv6addr
source-addr	Type: ipv6addr
static-oif	Type: bool
local-group	Type: bool

if-name	Type: interface
last-reported	Type: duration

Command Modes

- /exec

show ipv6 mld vrf all

show ipv6 [icmp] mld vrf all

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
mld	Display Multicast Listener Discovery information
vrf	Display per-VRF information
all	Display MLD VRFs

Command Modes

- /exec

show ipv6 mtu

show ipv6 mtu [**statistics**| **vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__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-cntxt*] [*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	Display non-TCP Path MTU Statistics
vrf	Clear information for particular VRF
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_mtu_stat	
out-ent	Type: longlong
exp-ent	Type: longlong
purge-ent	Type: longlong
int-err	Type: longlong
pkt-too-big	Type: longlong
cache-miss	Type: longlong
cache-upd	Type: longlong
mtu-small	Type: longlong

cache-no-upd	Type: longlong
TABLE_mtu_vrf	
tot-ipv6-mtu	Type: integer
TABLE_one_mtu	
pmtu-cntxt	Type: string
mtu-ipv6	Type: ipv6addr
mtu-cache	Type: integer
up-time	Type: string
iod-lcache	Type: string

Command Modes

- /exec

show ipv6 ndp

show ipv6 ndp

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ndp	Show IPv6 neighbors from netstack

Command Modes

- /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	Display IPv6 related interface information
interface	Type: interface Interface name to display
__readonly__	
TABLE_i6_nei	
nei-ipv6	Type: ipv6addr
nei-mac	Type: string
nei-iod	Type: string
nei-if-iod	Type: string
tot-nei-ent	Type: longlong
TABLE_nei_cnt	
nei-ipv6-tot	Type: ipv6addr
nei-mac-tot	Type: string
nei-iod-tot	Type: string
nei-if-iod-tot	Type: string

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
neighbor-id	Type: ipaddr Display one particular BGP neighbor
ipv6-neighbor-id	Type: ipv6addr Display one particular IPv6 BGP neighbor
neighbor-prefix-id	Type: ipprefix Display details for a prefix peering
ipv6-neighbor-prefix-id	Type: ipv6prefix Display details for an IPv6 prefix peering
ipv6	Display BGP information for IPv6 address family
routes	Display all routes advertised/received to/from peer

advertised	Display all routes advertised to this peer
received	Display all routes received from this peer
dampened	Display all dampened 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
flap-statistics	Display flap statistics for routes received from this peer
paths	Display AS paths learned from this peer

Command Modes

- /exec

show ipv6 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
ipv6nexthop	Type: ipv6addr Nexthop address

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
nexthop-database	Display nexthop database
ipv6	Display BGP information for IPv6 address family

Command Modes

- /exec

show ipv6 pim bitfield

show ipv6 pim bitfield

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
bitfield	Display compressed bitfield details

Command Modes

- /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
rp-or-group	Type: ipv6addr Display for a single RP or group address
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
TABLE_rp	
rp-addr	Type: ipv6addr
df-ordinal	Type: uinteger
df-bits	Type: string
df-bits-count	Type: uinteger
metric-pref	Type: uinteger

metric	Type: uinteger
TABLE_grange	
grange-grp	Type: ipv6addr
grange-masklen	Type: uinteger
TABLE_iod	
if-name	Type: interface
df-winner	Type: ipv6addr
df-state	**Unknown value: 1** **Offer value: 2** **Loser value: 3** **Winner value: 4** **Backoff value: 5** **Illegal value: 6**
winner-metric-pref	Type: uinteger
winner-metric	Type: uinteger
uptime	Type: duration
is-rpf	Type: bool

Command Modes

- /exec

show ipv6 pim embed-rp

show ipv6 pim embed-rp *group*

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
embed-rp	Display Embed-RP group address mapping
group	Type: ipv6addr Enter Embed-RP group address

Command Modes

- /exec

show ipv6 pim group-range

show ipv6 pim group-range [*group*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-context* **TABLE_group** *grp-addr invalid-grp 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
group	Type: ipv6addr IPV6 address of group to display
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
TABLE_group	
invalid-grp	Type: bool
grp-addr	Type: ipv6addr
mode	
rp-addr	Type: ipv6addr
sh-tree-only-range	Type: ipv6prefix

Command Modes

- /exec

show ipv6 pim interfaceshow ipv6 pim interface

show ipv6 pim interface *interface*| **show ipv6 pim interface [brief]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-context* **TABLE_iod** *if-name if-addr dr nbr-cnt is-border is-iface-in-cib is-pim-enabled if-addr-summary if-status dr-priority no-dr-priority hello-interval-sec hello-interval-msec hello-timer holdtime-sec holdtime-msec genid isauth-config nbr-policy-name jp-in-policy-name jp-out-policy-name 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 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
interface	Type: interface Interface name of single interface to display
brief	Display one line status per interface
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
TABLE_iod	
if-name	Type: interface

if-addr	Type: ipv6addr
dr	Type: ipv6addr
nbr-cnt	Type: uinteger
is-iface-in-cib	Type: bool
is-pim-enabled	Type: bool
is-border	Type: bool
if-addr-summary	Type: string
if-status	Type: string
dr-priority	Type: uinteger
no-dr-priority	Type: bool
hello-interval-sec	Type: uinteger
hello-interval-msec	Type: uinteger
hello-timer	Type: duration
holdtime-sec	Type: uinteger
holdtime-msec	Type: uinteger
genid	Type: uinteger
isauth-config	Type: bool
nbr-policy-name	Type: string
jp-in-policy-name	Type: string
jp-out-policy-name	Type: string
last-cleared	Type: duration
hello-sent	Type: uinteger
hello-rcvd	Type: uinteger
jp-sent	Type: uinteger
jp-rcvd	Type: uinteger
assert-sent	Type: uinteger

assert-rcvd	Type: uinteger
graft-sent	Type: uinteger
graft-rcvd	Type: uinteger
graft-ack-sent	Type: uinteger
graft-ack-rcvd	Type: uinteger
df-offer-sent	Type: uinteger
df-offer-rcvd	Type: uinteger
df-winner-sent	Type: uinteger
df-winner-rcvd	Type: uinteger
df-backoff-sent	Type: uinteger
df-backoff-rcvd	Type: uinteger
pass-sent	Type: uinteger
pass-rcvd	Type: uinteger
cksum-errors	Type: uinteger
invalid-errors	Type: uinteger
invalid-df-errors	Type: uinteger
auth-failed	Type: uinteger
pak-len-errors	Type: uinteger
ver-errors	Type: uinteger
pkts-self	Type: uinteger
pkts-non-nbr	Type: uinteger
jp-rcvd-on-rpf	Type: uinteger
jp-rcvd-no-rp	Type: uinteger
jp-rcvd-wrong-rp	Type: uinteger
jp-rcvd-for-ssm	Type: uinteger
jp-rcvd-for-bidir	Type: uinteger

jp-in-policy-filter	Type: uinteger
jp-out-policy-filter	Type: uinteger

Command Modes

- /exec

show ipv6 pim neighbor

show ipv6 pim neighbor {[*interface*]| [*ipv6addr*]} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-context* **TABLE_iod** *if-name if-addr is-iface-in-cib is-pim-enabled* **TABLE_neighbor** *nbr-addr is-nbr-in-cib does-nbr-exist uptime expires dr-priority no-dr-priority bidir-capable name no-name sec-addr no-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
interface	Type: interface Display neighbors on single interface name
ipv6addr	Type: ipv6addr IPV6 address of single neighbor to display
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
TABLE_iod	
if-name	Type: interface
if-addr	Type: ipv6addr
is-iface-in-cib	Type: bool

is-pim-enabled	Type: bool
TABLE_neighbor	
nbr-addr	Type: ipv6addr
is-nbr-in-cib	Type: bool
does-nbr-exist	Type: bool
uptime	Type: duration
expires	Type: duration
dr-priority	Type: uinteger
no-dr-priority	Type: bool
bidir-capable	Type: bool
name	Type: string
no-name	Type: bool
sec-addr	Type: ipv6addr
no-sec-addr	Type: bool

Command Modes

- /exec

show ipv6 pim oif-list

show ipv6 pim oif-list *group* [*source*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

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
source	Type: ipv6addr Source address to display
group	Type: ipv6addr Group address to display
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

Command Modes

- /exec

show ipv6 pim policy statistics

show ipv6 pim policy statistics {**jp-policy**| **neighbor-policy**} *interface*

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
interface	Type: interface Interface to display policy statistics for

Command Modes

- /exec

show ipv6 pim route

show ipv6 pim route {**[bitfield]**| *source group*| *group* [*source*] **[bitfield]**} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
route	Display PIM6 specific route information
group	Type: ipv6addr Group address to display
source	Type: ipv6addr Source address to display
bitfield	Display details of each bitfield for PIM6 route
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

Command Modes

- /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
group	Type: ipv6addr Group address for RP lookup
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
rp-found	Type: bool
is-rp-bsr-learnt	Type: bool
out-group	Type: ipv6addr
hash-length	Type: integer
out-bsr	Type: ipv6addr
TABLE_rp	
rp-addr	Type: ipv6addr

hash	Type: uinteger
isbest_hash	Type: bool

Command Modes

- /exec

show ipv6 pim rp

show ipv6 pim rp [*group*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *out-context is-bsr-enabled is-bsr-listen-only is-bsr-forward-only are-we-bsr bsr-address is-bsr-address bsr-priority bsr-hash-masklen bs-timer bsr-uptime bsr-expires is-autorp-enabled is-autorp-listen-only is-autorp-forward-only are-we-autorp autorp-address is-autorp-address autorp-dis-timer 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-in-cib df-ordinal rp-uptime rp-priority autorp-expires bsr-rp-expires autorp-info-src bsr-info-src is-rp-static static-rp-group-map* **TABLE_grange** *grange-grp grange-masklen is-bidir-grp is-autorp-rp-owner is-bsr-rp-owner is-static-rp-owner*]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp	Display PIM6 RP, Auto-RP, and BSR related information
group	Type: ipv6addr Display RP for group address
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
out-context	Type: vrf
is-bsr-enabled	Type: bool
is-bsr-listen-only	Type: bool
is-bsr-forward-only	Type: bool

are-we-bsr	Type: bool
bsr-address	Type: ipv6addr
is-bsr-address	Type: bool
bsr-priority	Type: uinteger
bsr-hash-masklen	Type: uinteger
bs-timer	Type: duration
bsr-uptime	Type: duration
bsr-expires	Type: duration
is-autorp-enabled	Type: bool
is-autorp-listen-only	Type: bool
is-autorp-forward-only	Type: bool
are-we-autorp	Type: bool
autorp-address	Type: ipv6addr
is-autorp-address	Type: bool
autorp-dis-timer	Type: duration
autorp-up-time	Type: duration
autorp-expire-time	Type: duration
rp-cand-policy-name	Type: string
bsr-policy-name	Type: string
rp-announce-policy-name	Type: string
rp-discovery-policy-name	Type: string
TABLE_anycast_rp	
anycast-rp-addr	Type: ipv6addr
TABLE_arp_rp	
arp-rp-addr	Type: ipv6addr
is-rpaddr-local	Type: bool
TABLE_rp	

rp-addr	Type: ipv6addr
is-rp-in-cib	Type: bool
df-ordinal	Type: uinteger
rp-uptime	Type: duration
rp-priority	Type: integer
autorp-expires	Type: duration
bsr-rp-expires	Type: duration
autorp-info-src	Type: ipv6addr
bsr-info-src	Type: ipv6addr
is-rp-static	Type: bool
static-rp-group-map	Type: string
TABLE_grange	
grange-grp	Type: ipv6addr
grange-masklen	Type: uinteger
is-bidir-grp	Type: bool
is-autorp-rp-owner	Type: bool
is-bsr-rp-owner	Type: bool
is-static-rp-owner	Type: bool

Command Modes

- /exec

show ipv6 pim statistics

show ipv6 pim statistics [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *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
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
statistics	Packet counter statistics
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
uptime	Type: duration
reg-sent	Type: uinteger
reg-rcvd	Type: uinteger
null-reg-sent	Type: uinteger
null-reg-rcvd	Type: uinteger
reg-stop-sent	Type: uinteger
reg-stop-rcvd	Type: uinteger

reg-rcvd-not-rp	Type: uinteger
reg-rcvd-for-ssm	Type: uinteger
reg-rcvd-for-bidir	Type: uinteger
bootstrap-sent	Type: uinteger
bootstrap-rcvd	Type: uinteger
cand-rp-sent	Type: uinteger
cand-rp-rcvd	Type: uinteger
bs-no-nbr	Type: uinteger
bs-border-deny	Type: uinteger
bs-len-errors	Type: uinteger
bs-rpf-failed	Type: uinteger
bs-no-listen	Type: uinteger
candrp-border-deny	Type: uinteger
candrp-no-listen	Type: uinteger
autorp-announce-sent	Type: uinteger
autorp-announce-rcvd	Type: uinteger
autorp-discovery-sent	Type: uinteger
autorp-discovery-rcvd	Type: uinteger
autorp-rpf-failed	Type: uinteger
autorp-border-deny	Type: uinteger
autorp-invalid-type	Type: uinteger
autorp-ttl-expired	Type: uinteger
autorp-no-listen	Type: uinteger
ctrl-no-route	Type: uinteger
data-no-route	Type: uinteger
no-state	Type: uinteger

create-state	Type: uinteger

Command Modes

- /exec

show ipv6 pim vrf

show ipv6 pim vrf [*vrf-name*| *vrf-known-name*| **all**] **[detail]** [**__readonly__ TABLE_context** *out-context context-id table-id count*]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display all VRFs PIM6 is configured for
detail	Display detailed information
__readonly__	
TABLE_context	
out-context	Type: vrf
context-id	Type: uinteger
table-id	Type: uinteger
count	Type: uinteger

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_pbr	
interface	Type: string
rmap	Type: string
status	Type: string
vrf_name	Type: string

Command Modes

- /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	Show detailed information
summary	Show summarized information
prefix-list	List IPv6 prefix lists
ipv6-pfl-name	Type: string pattern: [!-~]* length: 63 Name of prefix-list
ipv6-pfl-cfg-name	Type: string Known prefix-list name
seq	Sequence number
seq-no	Type: uinteger min: 1 max: 4294967294 Sequence number
prefix	Type: ipv6prefix IPv6 prefix network/length
first-match	Find the first match
longer	Find the more specific entries
__readonly__	
TABLE_ipv6_pfl	
name	Type: string
seq	Type: uinteger
action	Type: string

rule	Type: string

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display all VRFs
__readonly__	
TABLE_ipv6_all	
cnxt-name	Type: string
cnxt-id	Type: longlong
TABLE_ipv6	
ipv6-vrf	Type: string
ipv6-vrf-id	Type: longlong
auto-disc	Type: string
auto-add	Type: string
sta-disc	Type: string
sta-def	Type: longlong

ipv6-unreach	Type: longlong
TABLE_iod	
iod-val	Type: integer
iod-ifind	Type: hex
TABLE_ipv6_nxt	
ipv6-nxt	Type: ipv6addr

Command Modes

- /exec

show ipv6 process sdb

show ipv6 process sdb

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
sdb	Dump IPv6 sdb in a file

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
received-paths	Display paths stored for soft-reconfig
private	private

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ipv6	Display BGP information for IPv6 address family
regexp	Display routes matching the AS path regular expression
regexp-str	Type: string Regular expression to match the AS paths

Command Modes

- /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**}]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
rip	Display RIP routing protocol status
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
as	Type: asn 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
tag	Type: string Process tag
direct	Directly connected routes
static	Static routes

vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

Command Modes

- /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	All routers even on down interface
interface	Display neighbor router information on interface
interface	Type: interface Interface name to display
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_ipv6_routers	
TABLE_interface_ipv6	
rtr-ipv6	Type: ipv6addr
ipv6-int-addr	Type: interface
rtr-flo-time	Type: float
curr-hop-lmt	Type: integer

life-time	Type: integer
addr-flag	Type: integer
other-flg	Type: integer
mtu-rtr	Type: integer
hm-agent-flg	Type: integer
preference	Type: string
reach-time	Type: longlong
retrans-time	Type: longlong
TABLE_prefix_ipv6	
ipv6-prefix	Type: string
buf-ipv6	Type: string
buf-autono	Type: string
valid-life-time	Type: longlong
prefer-life	Type: longlong

Command Modes

- /exec

show ipv6 static-route

show ipv6 static-route [*prefix*] **[multicast]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_vrf** *vrf-name-out* **TABLE_route** *prefix-out next-hop intf-name pref real-nh has-real-intf real-intf-name*]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
static-route	Display configured static routes
multicast	Display configured static mroutes
all	Display all VRFs
prefix	Type: ipv6prefix IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_route	
prefix-out	Type: ipv6prefix
next-hop	Type: ipv6addr
intf-name	Type: interface
pref	Type: uinteger
real-nh	Type: ipv6addr

has-real-intf	Type: bool
real-intf-name	Type: interface

Command Modes

- /exec

show ipv6 statistics

show ipv6 statistics

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
statistics	Display IPv6 global statistics

Command Modes

- /exec

show ipv6 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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
summary	Display summarized information of BGP state
ipv6	Display BGP information for IPv6 address family

Command Modes

- /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*]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
traffic	Display IPv6 traffic statistics
detail	Display per protocol IPv6 statistics
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_ipv6_traffic	
uptime	Type: string
upkt-fwd	Type: uinteger
mpkt-fwd	Type: uinteger
ubyte-fwd	Type: uinteger
mbyte-fwd	Type: uinteger
upkt-orig	Type: uinteger

mpkt-orig	Type: uinteger
ubyte-orig	Type: uinteger
mbyte-orig	Type: uinteger
upkt-consumed	Type: uinteger
mpkt-consumed	Type: uinteger
ubyte-consumed	Type: uinteger
mbyte-consumed	Type: uinteger
ufrag-orig	Type: uinteger
mfra-orig	Type: uinteger
ufrag-consumed	Type: uinteger
mfrag-consumed	Type: uinteger
bad-version	Type: uinteger
rt-lookup-fail	Type: uinteger
hoplimit-excd	Type: uinteger
opt-header-error	Type: uinteger
pld-length-too-small	Type: uinteger
pm-failed	Type: uinteger
mbuf-error	Type: uinteger
could-not-enc	Type: uinteger

Command Modes

- /exec

show isis (isis)

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**process**| **protocol**] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *tag-out instance_num uuid process_id* **TABLE_vrf** *vrf-name-out system-id-out is-type-out sap-out mtu-out qh-out gr-t3-timer-out gr-status-out gr-state-out last-gr-status-out bfd-ipv4-state-out bfd-ipv6-state-out metric-send-out metric-accept-out area-addr-out proc-state-out vrf-id-out te-ted-out mpls-te-out* [**TABLE_te** *te-lvl-out te-rtrid-intf-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*] *intf-name-out auth-out auth-chk-out auth-kchain-out* [**TABLE_redist** *max_redist warning threshold current_count*] **TABLE_afi_safi** *afi-safi-out intf-num-out adj-check-out redist-pib-out redist-rpm-out dist-src-lvl-out dist-dest-lvl-out dist-leak-all-out dist-rpm-out admin-dist-out*]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
process	Display IS-IS process information
protocol	Display IS-IS process information
__readonly__	
tag-out	Type: string
instance_num	Type: integer

uuid	Type: integer
process_id	Type: integer
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi_safi	
afi-safi-out	Type: string
system-id-out	Type: string
is-type-out	Type: string
sap-out	Type: integer
mtu-out	Type: integer
qh-out	Type: integer
gr-t3-timer-out	Type: integer
gr-status-out	Type: string
gr-state-out	Type: string
last-gr-status-out	Type: string
bfd-ipv4-state-out	Type: bool
bfd-ipv6-state-out	Type: bool
metric-send-out	Type: string
metric-accept-out	Type: string
area-addr-out	Type: string
proc-state-out	Type: string
vrf-id-out	Type: string
te-ted-out	Type: string
mpls-te-out	Type: string
TABLE_te	
te-lvl-out	Type: string
te-rtrid-intf-out	Type: string

TABLE_te_fa	
te-fa-sysid-out	Type: string
te-fa-intf-out	Type: string
te-stat-sys-id-out	Type: string
te-stat-rtr-id-out	Type: string
TABLE_te_stat_lvl	
te-stat-lvl-out	Type: string
te-stat-up-out	Type: string
te-stat-down-out	Type: string
intf-name-out	Type: string
auth-out	Type: string
auth-chk-out	Type: string
auth-kchain-out	Type: string
TABLE_redist	
max_redist	Type: integer
warning	Type: string
threshold	Type: integer
current_count	Type: integer
intf-num-out	Type: string
adj-check-out	Type: bool
redist-pib-out	Type: string
redist-rpm-out	Type: string
dist-src-lvl-out	Type: string
dist-dest-lvl-out	Type: string
dist-leak-all-out	Type: bool
dist-rpm-out	Type: string
admin-dist-out	Type: integer

Command Modes

- /exec

show isis (isis)

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] {**hostname**| **hostname-table**} **[detail]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *tag-out* **TABLE_vrf** *vrf-name-out hname-enabled-out hname-detail-out hname-level-out hname-id-out hname-id-mine-out hname-name-out*]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
hostname	Display IS-IS hostname table information
hostname-table	Display IS-IS hostname table information
detail	Display detailed IS-IS information
__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
hname-enabled-out	Type: bool
hname-detail-out	Type: bool

hname-level-out	Type: integer
hname-id-out	Type: string
hname-id-mine-out	Type: integer
hname-name-out	Type: string

Command Modes

- /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__** *tag-out* **TABLE_vrf** *vrf-name-out adj-summary-out adj-interface-out adj-interface-name-out 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 adj-summ-p2p-level-out adj-summ-p2p-state-out adj-summ-p2p-count-out 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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
adjacency	Display IS-IS adjacency information
interface	Type: interface IS-IS interface
system-id	Hostname or System ID

sid	Type: sid Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	Display IS-IS adjacency detail information
p2p-level-1-2	Display IS-IS point-to-point information at level-1-2
summary	Display IS-IS adjacency summary information
__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
adj-summary-out	Type: bool
adj-interface-out	Type: bool
adj-interface-name-out	Type: string
adj-sys-name-out	Type: string
adj-sys-id-out	Type: string
adj-usage-out	Type: string
adj-level-out	Type: string
adj-state-out	Type: string
adj-hold-time-out	Type: string
adj-intf-name-out	Type: string
adj-detail-set-out	Type: bool
adj-transitions-out	Type: integer
adj-flap-out	Type: bool
adj-flap-time-out	Type: string
adj-ckt-type-out	Type: string
adj-ipv4-addr-out	Type: string
adj-ipv6-addr-out	Type: string
adj-bcast-out	Type: bool

adj-ckt-id-out	Type: string
adj-lan-prio-out	Type: integer
adj-bfd-ipv4-establish-out	Type: bool
adj-bfd-ipv6-establish-out	Type: bool
adj-resurrect-out	Type: bool
adj-resurrect-count-out	Type: integer
adj-resurrect-hwm-out	Type: integer
adj-restart-capable-out	Type: bool
adj-restart-ack-out	Type: bool
adj-restart-mode-out	Type: bool
adj-restart-adj-seen-ra-out	Type: bool
adj-restart-adj-seen-csnp-out	Type: bool
adj-restart-adj-seen-l1-csnp-out	Type: bool
adj-restart-adj-seen-l2-csnp-out	Type: bool
adj-restart-suppress-adj-out	Type: bool
adj-summ-p2p-level-out	**L1 value: 1** **L2 value: 2** **L1-2 value: 3**
adj-summ-p2p-state-out	**UP value: 1** **INIT value: 2** **DOWN value: 3**
adj-summ-p2p-count-out	Type: integer
adj-summ-lan-level-out	**L1 value: 1** **L2 value: 2**

adj-summ-lan-state-out	**UP value: 1** **INIT value: 2** **DOWN value: 3**
adj-summ-lan-count-out	Type: integer

Command Modes

- /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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
csnp	Display IS-IS CSNP cache contents
detail	Display detailed IS-IS information
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
TABLE_CSNPLEVEL	
csnp-level	Type: integer
csnp-cache-valid	Type: string
csnp-cache-hit	Type: integer
cscnp-cache-miss	Type: integer
csnp-hit-rate	Type: float
TABLE_CSNPLSPS	
csnp-start-lsp-id	Type: string
csnp-end-lsp-id	Type: string
csnp-entry-valid	Type: string
csnp-pdu-lengh	Type: integer
TABLE_CSNPONELSP	

csnp-lsp-id	Type: string
csnp-lsp-seq-num	Type: integer
csnp-lsp-chk-sum	Type: integer
csnp-lsp-life-time	Type: integer

Command Modes

- /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__** *tag-out* **TABLE_vrf** *vrf-name-out dbase-hname-absent-out dbase-level-out dbase-lsp-name-out dbase-lsp-status-out dbase-lsp-absent-out dbase-lsp-seqnum-out dbase-lsp-cksum-out dbase-lsp-lifetime-out dbase-att-out dbase-partition-out dbase-overload-out dbase-istype-out dbase-lsp-instance-out dbase-lsp-digest-out dbase-lsp-subtlv-name-out 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 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-prot-support-out dbase-lsp-ip-addr-out dbase-lsp-hname-out dbase-lsp-hname-len-out dbase-lsp-ext-is-name-out dbase-lsp-ext-is-metric-out dbase-lsp-extis-admin-group-out dbase-lsp-extis-bw-out dbase-lsp-extis-te-metric-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-subtlv-unknown-out dbase-lsp-subtlv-len-out dbase-lsp-tlv-unknown-out dbase-lsp-tlv-len-out dbase-lsp-extip-addr-out dbase-lsp-extip-prefix-len-out dbase-lsp-extip-metric-out dbase-lsp-extip-up-down-out 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-ipv6-addr-out dbase-lsp-malformed-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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

database	Display IS-IS database information
level	IS-IS level **level-1 value: 1** Display IS-IS Level-1 routing link state database **level-2 value: 2** Display IS-IS Level-2 routing link state database **l1 value: 1** Display IS-IS Level-1 routing link state database **l2 value: 2** Display IS-IS Level-2 routing link state database
lid	Type: lid LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	Display detailed IS-IS information
advertise	Display advertise tlv lsp-memory information
summary	Display summary IS-IS information
zero-sequence	LSP with zero sequence number
ip	IP attribute filter
ipv6	IPv6 attribute filter
prefix	Prefix filter
ip-prefix	Type: ipprefix Single exact match IP prefix filter
ipv6-prefix	Type: ipv6prefix Single exact match IPv6 prefix filter
adjacency	Adjacency filter
adj-id	Type: nid Single exact match adjacency filter
router-id	Router-id filter
rid	Type: ipaddr single exact match router-id filter

__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
dbase-hname-absent-out	Type: string
dbase-level-out	Type: integer
dbase-lsp-name-out	Type: string
dbase-lsp-status-out	Type: string
dbase-lsp-absent-out	Type: bool
dbase-lsp-seqnum-out	Type: integer
dbase-lsp-cksum-out	Type: integer
dbase-lsp-lifetime-out	Type: string
dbase-att-out	Type: integer
dbase-partition-out	Type: integer
dbase-overload-out	Type: integer
dbase-istype-out	Type: integer
dbase-lsp-instance-out	Type: integer
dbase-lsp-digest-out	Type: integer
dbase-lsp-subtlv-name-out	Type: string
dbase-lsp-tlv-name-out	Type: string
dbase-lsp-area-addr-out	Type: string
dbase-lsp-is-nbr-name-out	Type: string
dbase-lsp-is-nbr-metric-out	Type: integer
dbase-lsp-is-nbr-ext-metric-out	Type: integer
dbase-lsp-es-nbr-name-out	Type: string
dbase-lsp-es-nbr-metric-out	Type: integer
dbase-lsp-es-nbr-ext-metric-out	Type: integer

dbase-lsp-auth-type-out	Type: integer
dbase-lsp-auth-len-out	Type: integer
dbase-lsp-ext-is-name-out	Type: string
dbase-lsp-ext-is-metric-out	Type: integer
dbase-lsp-extis-admin-group-out	Type: integer
dbase-lsp-extis-bw-out	Type: integer
dbase-lsp-extis-te-metric-out	Type: integer
dbase-lsp-extis-pri1-out	Type: integer
dbase-lsp-extis-pri1-val-out	Type: integer
dbase-lsp-extis-pri2-out	Type: integer
dbase-lsp-extis-pri2-val-out	Type: integer
dbase-lsp-subtlv-unknown-out	Type: integer
dbase-lsp-subtlv-len-out	Type: integer
dbase-lsp-tlv-unknown-out	Type: integer
dbase-lsp-tlv-len-out	Type: integer
dbase-lsp-extip-addr-out	Type: string
dbase-lsp-extip-prefix-len-out	Type: integer
dbase-lsp-extip-metric-out	Type: integer
dbase-lsp-extip-up-down-out	Type: string
dbase-lsp-extipv6-addr-out	Type: string
dbase-lsp-extipv6-prefix-len-out	Type: integer
dbase-lsp-extipv6-metric-out	Type: integer
dbase-lsp-extipv6-up-down-out	Type: string
dbase-lsp-extipv6-ext-origin-out	Type: string
dbase-lsp-ip-ri-addr-out	Type: string
dbase-lsp-ip-ri-mask-out	Type: integer

dbase-lsp-ip-ri-metric-out	Type: integer
dbase-lsp-ip-ri-ext-metric-out	Type: string
dbase-lsp-ip-ri-up-down-out	Type: string
dbase-lsp-prot-support-out	Type: integer
dbase-lsp-ip-addr-out	Type: string
dbase-lsp-hname-out	Type: string
dbase-lsp-hname-len-out	Type: string
dbase-lsp-ipv6-addr-out	Type: string
dbase-lsp-malformed-out	Type: string
dbase-lsp-total-out	Type: integer
dbase-lsp-empty-out	Type: integer
dbase-lsp-zeroseq-out	Type: integer

Command Modes

- /exec

show isis ipv6 redistribute route

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **ipv6 redistribute route** [**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-af-ix*] [*redist-route-ipv6-prefix*] [*redist-route-ipv6-mask-len*] [*redist-route-ipv6-pib-name*] [*redist-route-ipv6-direct-mask*] [*redist-route-ipv6-route-type*] [*redist-route-ipv6-status*] [**TABLE_redist** *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-route-total*] [*redist-route-ipv6-prot-route-total*] [*redist-route-ipv6-summary-pending-total*] [*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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ipv6	Display IS-IS IPv6 information
ipv6-addr	Type: ipv6addr Display single IPv6 redistribute route

ipv6-prefix	Type: ipv6prefix Display single exact match IPv6 redistribute route
longer-prefixes	Display exact match and more specific routes
summary	Display route counts
direct-mask	Display routes with direct-mask set
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
redist-route-ipv6-vrf	Type: string
redist-route-ipv6-af-ix	Type: string
redist-route-ipv6-prefix	Type: string
redist-route-ipv6-mask-len	Type: integer
redist-route-ipv6-pib-name	Type: string
redist-route-ipv6-direct-mask	Type: string
redist-route-ipv6-route-type	Type: string
redist-route-ipv6-status	Type: string
TABLE_redist	
redist-route-ipv6-level	Type: integer
redist-route-ipv6-metric	Type: integer
redist-route-ipv6-sum-addr-prefix	Type: string
redist-route-ipv6-sum-addr-mask-len	Type: integer
redist-route-ipv6-summary-route-total	Type: integer
redist-route-ipv6-prot-route-total	Type: integer
redist-route-ipv6-summary-pending-total	Type: integer
redist-route-ipv6-summary-mask-len-ix	Type: integer
redist-route-ipv6-summary-mask-len	Type: integer

Command Modes

- /exec

show isis ipv6 route-map statistics

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **ipv6 route-map statistics** {**redistribute** {**static**| **direct**| **amt**| **lisp**| **bgp** *as*| {*src-isis*| **eigrp**| **ospfv3**| **rip**} *tag*}| **distribute** *src-level* **into** *dst-level*} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_process_tag** [*process-tag-out*] [*route-map-stat-vrf*]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
ipv6	Display IS-IS IPv6 information
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes

bgp	Border Gateway Protocol (BGP)
as	Type: asn Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
<src-isis>	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
rip	RIP for IPv6 (RIPNG)
tag	Type: string Process tag
distribute	Distribute routes between ISIS levels
into	from level-n into level-m
src-level	Route-distribution between levels **level-1 value: 1** Inter-area routes from level-1 of this IS-IS instance **level-2 value: 2** Inter-area routes from level-2 of this IS-IS instance
dst-level	Route-distribution between levels **level-1 value: 1** Inter-area routes into level-1 of this IS-IS instance **level-2 value: 2** Inter-area routes into level-2 of this IS-IS instance
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
route-map-stat-vrf	Type: string

Command Modes

- /exec

show isis lsp free-list

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] {**non-pseudonode**| **pseudonode** {*interface*| **orphan**}} **lsp free-list [summary]** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
interface	Type: interface IS-IS interface
orphan	Display orphan LSP information
lsp	Display IS-IS LSP information
free-list	Display free-list information
summary	Display LSP count per free-list

Command Modes

- /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__** *tag-out* **TABLE_vrf** *vrf-name-out mesh-id-set-out mesh-id-out mesh-set-id-out mesh-id-intf-name-out mesh-id-none-out*]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
mesh-group	Display IS-IS mesh-groups
mesh-id	Type: uinteger min: 1 max: 0 Display a single mesh-group
__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
mesh-id-set-out	Type: bool

mesh-id-out	Type: bool
mesh-set-id-out	Type: integer
mesh-id-intf-name-out	Type: string
mesh-id-none-out	Type: bool

Command Modes

- /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*] [*redist-route-prefix*] [*redist-route-mask-len*] [*redist-route-pib-name*] [*redist-route-direct-mask*] [*redist-route-route-type*] [*redist-route-status*] [**TABLE_redist** *redist-route-level* [*redist-route-metric*] [*redist-route-sum-addr-prefix*] [*redist-route-sum-addr-mask-len*]] [*redist-route-summary-route-total*] [*redist-route-prot-route-total*] [*redist-route-summary-pending-total*] [*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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	Display IS-IS IPv4 information
ip-addr	Type: ipaddr Display single IP redistribute route
ip-prefix	Type: ipprefix Display single exact match IP redistribute route

longer-prefixes	Display exact match and more specific routes
summary	Display route counts
direct-mask	Display routes with direct-mask set
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
redist-route-vrf	Type: string
redist-route-af-ix	Type: string
redist-route-prefix	Type: string
redist-route-mask-len	Type: integer
redist-route-pib-name	Type: string
redist-route-direct-mask	Type: string
redist-route-route-type	Type: string
redist-route-status	Type: string
TABLE_redist	
redist-route-level	Type: integer
redist-route-metric	Type: integer
redist-route-sum-addr-prefix	Type: string
redist-route-sum-addr-mask-len	Type: integer
redist-route-summary-route-total	Type: integer
redist-route-prot-route-total	Type: integer
redist-route-summary-pending-total	Type: integer
redist-route-summary-mask-len-ix	Type: integer
redist-route-summary-mask-len	Type: integer

Command Modes

- /exec

show isis route-map statistics

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **[ip] route-map statistics** {**redistribute** {**static**| **direct**| **amt**| **lisp**| **bgp** *as*| {*src-isis*| **eigrp**| **ospf**| **rip**} *tag*}| **distribute** *src-level* **into** *dst-level*} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_process_tag** [*process-tag-out*] [*route-map-stat-vrf*]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
ip	Display IS-IS IPv4 information
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes

bgp	Border Gateway Protocol (BGP)
as	Type: asn Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
<src-isis>	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	RIP for IPv4
tag	Type: string Process tag
distribute	Distribute routes between ISIS levels
into	from level-n into level-m
src-level	Route-distribution between levels **level-1 value: 1** Inter-area routes from level-1 of this IS-IS instance **level-2 value: 2** Inter-area routes from level-2 of this IS-IS instance
dst-level	Route-distribution between levels **level-1 value: 1** Inter-area routes into level-1 of this IS-IS instance **level-2 value: 2** Inter-area routes into level-2 of this IS-IS instance
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
route-map-stat-vrf	Type: string

Command Modes

- /exec

show isis routeshow isis ipv6 routeshow isis route is

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **[ip] route** [**summary**| **detail**| *ip-addr* **[detail]**| *ip-prefix* [**detail**| **longer-prefixes** [**summary**| **detail**]]] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]| **show isis** [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **ipv6 route** [**topology** {**[base]**| **mt-ipv6**}] [**summary**| **detail**| *ipv6-addr* **[detail]**| *ipv6-prefix* [**detail**| **longer-prefixes** [**summary**| **detail**]]] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]| **show isis** [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **route is** [**topology** {**[base]**| **mt-ipv6**}] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__** *tag-out* **TABLE_vrf** *vrf-name-out afi-safi-out route-absent-out route-lvl-absent-out 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 route-direct-out route-direct-via-out route-direct-if-name-out route-direct-metric-out route-direct-level-out route-direct-instance-out route-marker-out route-addr-valid-out route-ifname-out route-metric-out route-pref-out route-no-def-prefix-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 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 route-backuppaths-out route-path-sum-lvl-out route-path-sum-total-out route-path-sum-direct-out route-path-sum-normal-out route-bestroutes-per-mask-out 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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
ip	Display IS-IS IPv4 information

ipv6	Display IS-IS IPv6 information
is	Display IS route
route	Display IS-IS route information
ip-addr	Type: ipaddr Display single IP route
ip-prefix	Type: ipprefix Display single exact match IP route
ipv6-addr	Type: ipv6addr Display single IPv6 route
ipv6-prefix	Type: ipv6prefix Display single exact match IPv6 route
longer-prefixes	Display exact match and more specific routes
summary	Display route counts
detail	Display detail route information
topology	Display routes for a topology
base	Display routes for BASE topology
mt-ipv6	Display routes for MT-IPV6-UNICAST topology
__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
afi-safi-out	Type: string
route-absent-out	Type: bool
route-lvl-absent-out	Type: bool
route-prefix-out	Type: string
route-mask-len-out	Type: integer
route-level-out	Type: integer
route-summ-discard-addr-out	Type: string

route-summ-discard-mask-len-out	Type: integer
route-discard-addr-out	Type: string
route-discard-mask-len-out	Type: integer
route-addr-print-out	Type: string
route-mask-len-print-out	Type: integer
route-direct-print-out	Type: string
route-direct-out	Type: bool
route-direct-via-out	Type: string
route-direct-if-name-out	Type: string
route-direct-metric-out	Type: integer
route-direct-level-out	Type: integer
route-direct-instance-out	Type: integer
route-marker-out	Type: bool
route-addr-valid-out	Type: bool
route-ifname-out	Type: string
route-metric-out	Type: integer
route-pref-out	Type: string
route-instance-out	Type: integer
route-no-def-prefix-out	Type: string
route-discard-mask-out	Type: bool
route-sum-prefix-out	Type: string
route-sum-prefix-len-out	Type: integer
route-total-out	Type: integer
route-paths-total-out	Type: integer
route-paths-best-out	Type: integer
route-paths-backup-out	Type: integer

route-sum-lvl-out	Type: integer
route-sum-total-out	Type: integer
route-sum-direct-out	Type: integer
route-sum-normal-out	Type: integer
route-sum-missing-out	Type: integer
route-best-pend-num-out	Type: integer
route-bestpaths-out	Type: string
route-backuppaths-out	Type: string
route-path-sum-lvl-out	Type: integer
route-path-sum-total-out	Type: integer
route-path-sum-direct-out	Type: integer
route-path-sum-normal-out	Type: integer
route-bestroutes-per-mask-out	Type: string
route-best-mask-val-out	Type: integer
route-best-mask-count-out	Type: integer
route-pend-q-count-out	Type: integer

Command Modes

- /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-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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
rrm	Display IS-IS Retransmit-Routing-Message information
interface	Type: interface IS-IS interface
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
rrm-if-name	Type: string
TABLE_rrm	

rrm-level	Type: integer
rrm-retx-interval	Type: integer
rrm-retx-throttle-interval	Type: integer
rrm-retx-queue-length	Type: integer
rrm-next-retx	Type: string
rrm-retx-queue-hwm	Type: integer
rrm-retx-queue-exceed	Type: integer
rrm-dbase-hdr	Type: string
rrm-timestamp	Type: string
rrm-lsp-retx-instance	Type: integer
rrm-lsp-db-instance	Type: integer
rrm-rrm-set	Type: string
rrm-srm-set	Type: string

Command Modes

- /exec

show isis spf-adjacency

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **spf-adjacency** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_process_tag** *process-tag-out spf-adjacency-vrf* [*spf-adjacency-system-name*] [*spf-adjacency-refcount*] [*spf-adjacency-if-name*] [*spf-adjacency-rib-addr*] [*spf-adjacency-rib-addr-valid*] [*spf-adjacency-rib-ipv6-addr*] [*spf-adjacency-rib-ipv6-addr-valid*] [*spf-adjacency-spf-addr*] [*spf-adjacency-spf-ipv6-addr*] [**TABLE_SPFADJLEVEL** *spf-adjacency-level*]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
spf-adjacency	Display IS-IS SPF adjacency information
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
spf-adjacency-vrf	Type: string
spf-adjacency-system-name	Type: string
spf-adjacency-refcount	Type: integer
spf-adjacency-if-name	Type: string

spf-adjacency-rib-addr	Type: string
spf-adjacency-rib-addr-valid	Type: string
spf-adjacency-rib-ipv6-addr	Type: string
spf-adjacency-rib-ipv6-addr-valid	Type: string
spf-adjacency-spf-addr	Type: string
spf-adjacency-spf-ipv6-addr	Type: string
TABLE_SPFADJLEVEL	
spf-adjacency-level	Type: integer

Command Modes

- /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__** *tag-out* **TABLE_vrf** *vrf-name-out spflog-calc-out spflog-size-out spflog-maxsize-out spflog-ago-time-out spflog-lvl-out spflog-reason-out spflog-count-out spflog-elapsed-ts-out spflog-log-num-out spflog-ts-detail-out spflog-date-detail-out spflog-lvl-detail-out spflog-instance-detail-out spflog-init-ts-detail-out spflog-spf-ts-detail-out spflog-detail-ts-is-out spflog-detail-ts-urib-out spflog-detail-ts-elapsed-out spflog-detail-lvl-out spflog-detail-spf-cnt-out spflog-detail-sync-cnt-out spflog-detail-spf-reason-out*]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
spf-log	Display IS-IS SPF information
detail	Display detail ISIS SPF information
__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
spflog-calc-out	Type: integer

spflog-size-out	Type: integer
spflog-maxsize-out	Type: integer
spflog-ago-time-out	Type: string
spflog-lvl-out	Type: integer
spflog-reason-out	Type: string
spflog-count-out	Type: integer
spflog-elapsed-ts-out	Type: string
spflog-log-num-out	Type: integer
spflog-ts-detail-out	Type: string
spflog-date-detail-out	Type: string
spflog-lvl-detail-out	Type: integer
spflog-instance-detail-out	Type: integer
spflog-init-ts-detail-out	Type: string
spflog-spf-ts-detail-out	Type: string
spflog-detail-ts-is-out	Type: string
spflog-detail-ts-urib-out	Type: string
spflog-detail-ts-elapsed-out	Type: string
spflog-detail-lvl-out	Type: integer
spflog-detail-spf-cnt-out	Type: integer
spflog-detail-sync-cnt-out	Type: integer
spflog-detail-spf-reason-out	Type: string

Command Modes

- /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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
srm	Display IS-IS Send-Routing-Message information
interface	Type: interface IS-IS interface
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
srm-if-name	Type: string
TABLE_srm	
srm-level	Type: integer

srm-if-eligible	Type: string
srm-if-not-on-srm-list	Type: string
srm-lsp-interval	Type: integer
srm-next-lsp	Type: string
srm-dbase-hdr	Type: string

Command Modes

- /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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
ssn	Display IS-IS Send-Sequence-Number information
interface	Type: interface IS-IS interface
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
snn-if-name	Type: string
TABLE_ssn	
snn-level	Type: integer

snn-psnp-eligible	Type: string
snn-next-psnp	Type: string
snn-dbase_hdr	Type: string

Command Modes

- /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__** *tag-out* **TABLE_vrf** *vrf-name-out stat-if-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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
statistics	Display IS-IS protocol statistics
interface	Type: interface IS-IS interface
__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
stat-if-out	Type: bool
stat-if-name-out	Type: string

stat-spf-calc-out	Type: integer
stat-lsp-sourced-out	Type: integer
stat-lsp-refresh-out	Type: integer
stat-lsp-purge-out	Type: integer
stat-dis-elections-out	Type: integer

Command Modes

- /exec

show isis summary-addressshow isis ipv6 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**}]| **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__** *tag-out* **TABLE_vrf** *vrf-name-out afi-safi-out addr-absent-out addr-prefix-out addr-mask-len-out addr-level-out addr-num-out addr-lvl-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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
ip	Display IS-IS IPv4 information
ipv6	Display IS-IS IPv6 information
summary-address	Display IS-IS summary address
ip-addr	Type: ipaddr Display single IP summary address
ip-prefix	Type: ipprefix Display single exact match IP summary address

ipv6-addr	Type: ipv6addr Display single IPv6 summary address
ipv6-prefix	Type: ipv6prefix Display single exact match IPv6 summary address
longer-prefixes	Display exact match and more specific summary address
__readonly__	
tag-out	Type: string
TABLE_vrf	
vrf-name-out	Type: string
afi-safi-out	Type: string
addr-absent-out	Type: bool
addr-prefix-out	Type: string
addr-mask-len-out	Type: integer
addr-level-out	Type: string
addr-num-out	Type: integer
addr-lvl-out	Type: integer
addr-metric-absent-out	Type: bool
addr-metric-out	Type: integer
addr-route-count-out	Type: integer

Command Modes

- /exec

show isis tlv overflow-list

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] {**non-pseudonode**| **pseudonode** *interface*} **tlv overflow-list** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
interface	Type: interface IS-IS interface
tlv	Display IS-IS TLV information
overflow-list	Display ISIS TLV overflow-list information

Command Modes

- /exec

show isis topology

show isis [*isis-tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **topology** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_process_tag** *process-tag-out topology-vrf*]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
topology	Display IS-IS Topology information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
topology-vrf	Type: string

Command Modes

- /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__** *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
isis-tag	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Routing process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
traffic	Display IS-IS traffic information
interface	Type: interface IS-IS interface
mbuf-priority	Display mbuf priorities for received PDUs
__readonly__	
tag-out	Type: string

TABLE_vrf	
vrf-name-out	Type: string
traffic-if-out	Type: bool
traffic-if-name-out	Type: string
traffic-lan-iih-out	Type: string
traffic-lan-iih-rcv-out	Type: integer
traffic-lan-iih-xmit-out	Type: integer
traffic-lan-iih-rcv-auth-err-out	Type: integer
traffic-lan-iih-rcv-err-out	Type: integer
traffic-p2p-iih-out	Type: string
traffic-p2p-iih-rcv-out	Type: integer
traffic-p2p-iih-xmit-out	Type: integer
traffic-p2p-iih-rcv-auth-err-out	Type: integer
traffic-p2p-iih-rcv-err-out	Type: integer
traffic-csnp-out	Type: string
traffic-csnp-rcv-out	Type: integer
traffic-csnp-xmit-out	Type: integer
traffic-csnp-rcv-auth-err-out	Type: integer
traffic-csnp-rcv-err-out	Type: integer
traffic-psnp-out	Type: string
traffic-psnp-rcv-out	Type: integer
traffic-psnp-xmit-out	Type: integer
traffic-psnp-rcv-auth-err-out	Type: integer
traffic-psnp-rcv-err-out	Type: integer
traffic-lsp-out	Type: string
traffic-lsp-rcv-out	Type: integer
traffic-lsp-flood-out	Type: integer

traffic-lsp-rcv-auth-err-out	Type: integer
traffic-lsp-rcv-err-out	Type: integer
traffic-lsp-rexmit-out	Type: integer
traffic-xmit-err-out	Type: integer
traffic-unknown-pdu-rcv-out	Type: integer

Command Modes

- /exec

K Show Commands

- show key chain (rpm), page 1892
- show key chain (rpm), page 1894
- show keystore, page 1896

show key chain (rpm)

show key chain [*keychain*] **mode decrypt** [**__readonly__ TABLE_keychain** *chain_name* **TABLE_key** *key_id key_string 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
keychain	Type: string pattern: [!-~]* antipattern: mode | decrypt length: 63 Keychain name
mode	Mode of display
decrypt	Display Decrypted Keystrings
__readonly__	
TABLE_keychain	
TABLE_key	
chain_name	Type: string
key_id	Type: uinteger
key_string	Type: string
accept_utc_zone	Type: bool
accept_start	Type: string
accept_end	Type: string
accept_valid	Type: bool
send_utc_zone	Type: bool
send_start	Type: string
send_end	Type: string

send_valid	Type: bool

Command Modes

- /exec

show key chain (rpm)

show key chain [*keychain*] [**__readonly__ TABLE_keychain** *chain_name* **TABLE_key** *key_id key_string 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
keychain	Type: string pattern: [!-~]* antipattern: mode | decrypt length: 63 Keychain name
__readonly__	
TABLE_keychain	
TABLE_key	
chain_name	Type: string
key_id	Type: uinteger
key_string	Type: string
accept_utc_zone	Type: bool
accept_start	Type: string
accept_end	Type: string
accept_valid	Type: bool
send_utc_zone	Type: bool
send_start	Type: string
send_end	Type: string
send_valid	Type: bool

Command Modes

- /exec

show keystore

show keystore [**__readonly__ TABLE_sksd_state_entries** *index handle keystore_type keystore_ver fw_panics fw_resets rx_fifo_underruns rx_timeouts rx_bad_checksums rx_bad_fragment_lengths keystore_corruption*]

Syntax Description

show	Show running system information
keystore	keystore stats
__readonly__	
TABLE_sksd_state_entries	Displays handles of the keys stored
index	Type: uinteger Index value
handle	Type: string Handle Name
keystore_type	Type: uinteger Type of storage h/w or s/w
keystore_ver	Type: uinteger Version
fw_panics	Type: uinteger Number of panics
fw_resets	Type: uinteger Number of Resets
rx_fifo_underruns	Type: uinteger Rx FIFO Underruns
rx_timeouts	Type: uinteger Number of Rx timeouts
rx_bad_checksums	Type: uinteger Number of Bad Checsums
rx_bad_fragment_lengths	Type: uinteger Bad fragment lenghts received

keystore_corruption	Type: uinteger Number of corruptions detected

Command Modes

- /exec

L Show Commands

- show l2protocol tunnel, page 1905
- show lacp counters, page 1907
- show lacp interface, page 1909
- show lacp issu-impact, page 1915
- show lacp neighbor, page 1916
- show lacp port-channel, page 1918
- show lacp system-identifier, page 1920
- show ldap-search-map, page 1921
- show ldap-server, page 1922
- show ldap-server groups, page 1924
- show ldap-server statistics, page 1926
- show license, page 1928
- show license brief, page 1929
- show license file, page 1930
- show license host-id, page 1931
- show license reserved, page 1932
- show license usage, page 1933
- show line, page 1935
- show line console, page 1937
- show line console connected, page 1939
- show line console user-input-string, page 1940
- show lisp stats-cache, page 1941
- show lldp dcbx interface, page 1942
- show lldp entry, page 1944

- show lldp interface, page 1946
- show lldp neighbors, page 1948
- show lldp neighbors detail, page 1950
- show lldp portid-subtype, page 1952
- show lldp timers, page 1953
- show lldp tlv-select, page 1954
- show lldp traffic, page 1955
- show lldp traffic interface, page 1956
- show locator-led status (pfm), page 1957
- show locator-led status (satmgr), page 1958
- show logging, page 1959
- show logging console, page 1960
- show logging info, page 1961
- show logging ip access-list cache, page 1962
- show logging ip access-list status, page 1964
- show logging last, page 1965
- show logging level (licmgr), page 1966
- show logging level (sksd), page 1967
- show logging level (syslog), page 1968
- show logging level aaa, page 1970
- show logging level acllog, page 1971
- show logging level aclmgr, page 1972
- show logging level adjmgr, page 1973
- show logging level arp, page 1974
- show logging level ascii-cfg, page 1975
- show logging level bfd, page 1976
- show logging level bgp, page 1977
- show logging level bloggerd, page 1978
- show logging level bootvar, page 1979
- show logging level callhome, page 1980
- show logging level capability, page 1981
- show logging level cdp, page 1982
- show logging level cert-enroll, page 1983

- show logging level cert_enroll, page 1984
- show logging level cfs, page 1985
- show logging level clis, page 1986
- show logging level clk_mgr, page 1987
- show logging level confcheck, page 1988
- show logging level copp, page 1989
- show logging level core, page 1990
- show logging level dhcp_snoop, page 1991
- show logging level diagnostic device_test, page 1992
- show logging level diagnostic diagclient, page 1993
- show logging level diagnostic diagmgr, page 1994
- show logging level eigrp, page 1995
- show logging level ethdstats, page 1996
- show logging level ethpm, page 1997
- show logging level evmc, page 1998
- show logging level evmed, page 1999
- show logging level evms, page 2000
- show logging level feature-mgr, page 2001
- show logging level fex, page 2002
- show logging level fs-daemon, page 2003
- show logging level glbp, page 2004
- show logging level gpixm, page 2005
- show logging level hsrp, page 2006
- show logging level im, page 2007
- show logging level interface-vlan, page 2008
- show logging level ip igmp, page 2009
- show logging level ip msdp, page 2010
- show logging level ip pim, page 2011
- show logging level ipconf, page 2012
- show logging level ipqos, page 2013
- show logging level ipv6 icmp, page 2014
- show logging level ipv6 pim, page 2015
- show logging level isis, page 2016

- show logging level l2fm, page 2017
- show logging level l2pt, page 2018
- show logging level l3vm, page 2019
- show logging level lacp, page 2020
- show logging level ldap, page 2021
- show logging level lldp, page 2022
- show logging level m2rib, page 2023
- show logging level mfdm, page 2024
- show logging level mfwd, page 2025
- show logging level module, page 2026
- show logging level mpls switching, page 2027
- show logging level mvsh, page 2028
- show logging level netstack, page 2029
- show logging level ntp, page 2030
- show logging level nve, page 2031
- show logging level oim, page 2032
- show logging level onep, page 2033
- show logging level orib, page 2034
- show logging level ospf, page 2035
- show logging level ospfv3, page 2036
- show logging level patch-installer, page 2037
- show logging level pfstat, page 2038
- show logging level pixm, page 2039
- show logging level platform, page 2040
- show logging level pltfm_config, page 2041
- show logging level plugin, page 2042
- show logging level poap, page 2043
- show logging level pong, page 2044
- show logging level port-channel, page 2045
- show logging level port-security, page 2046
- show logging level private-vlan, page 2047
- show logging level radius, page 2048
- show logging level res_mgr, page 2049

- show logging level rip, page 2050
- show logging level routing multicast, page 2051
- show logging level rpm, page 2052
- show logging level rsvp, page 2053
- show logging level sal, page 2054
- show logging level scheduler, page 2055
- show logging level security, page 2056
- show logging level session-mgr, page 2057
- show logging level smm, page 2058
- show logging level snmpd, page 2059
- show logging level spanning-tree, page 2060
- show logging level spm, page 2061
- show logging level sysmgr, page 2062
- show logging level tacacs, page 2063
- show logging level track, page 2064
- show logging level tunnel, page 2065
- show logging level u2rib, page 2066
- show logging level u6rib, page 2067
- show logging level udld, page 2068
- show logging level ufdm, page 2069
- show logging level urib, page 2070
- show logging level vdc_mgr, page 2071
- show logging level virtual-service, page 2072
- show logging level vlan_mgr, page 2073
- show logging level vmm, page 2074
- show logging level vntag, page 2075
- show logging level vpc, page 2076
- show logging level vrrp-cfg, page 2077
- show logging level vrrp-eng, page 2078
- show logging level vshd, page 2079
- show logging level vtp, page 2080
- show logging level xbar, page 2081
- show logging logfile, page 2082

- show logging logfile duration, page 2083
- show logging logfile last-index, page 2084
- show logging logfile start-seqn, page 2085
- show logging logfile start-time, page 2086
- show logging loopback, page 2088
- show logging module, page 2089
- show logging monitor, page 2090
- show logging nvram, page 2091
- show logging onboard, page 2092
- show logging server, page 2096
- show logging source-interface, page 2097
- show logging timestamp, page 2098

show l2protocol tunnel

show l2protocol tunnel [**interface** *intf-range*| **vlan** *vlan-id*] **[summary]** [**__readonly__** *is-summary cos-value first-entry* **TABLE-intf** *ifname status* **TABLE-protocol** *enabled pname shut-threshold drop-threshold encap-count decap-count drop-count*]

Syntax Description

show	Show running system information
l2protocol	Layer 2 Protocol
tunnel	Protocol Tunneling
interface	Display Layer 2 interface L2PT information
intf-range	Type: interface-mrange Interface or range of interfaces
vlan	Display L2PT information based on VLAN
vlan-id	Type: integer min: 1 max: 4094 Vlan ID
summary	Display summary
__readonly__	
is-summary	Type: integer
cos-value	Type: integer
first-entry	Type: integer
TABLE-intf	
ifname	Type: string length: 20
TABLE-protocol	
status	Type: string length: 20
pname	Type: string length: 20
enabled	Type: integer

shut-threshold	Type: integer
drop-threshold	Type: integer
encap-count	Type: integer
decap-count	Type: integer
drop-count	Type: integer

Command Modes

- /exec

show lacp counters

show lacp counters [**interface** *if0*] [**__readonly__ TABLE_interface** *interface* **TABLE_member** *port pdus-sent pdus-rcvd marker-sent marker-rcvd marker-resp-sent marker-resp-rcvd pkt-errors* [*illegal-rcvd*] [*unknown-rcvd*]]

Syntax Description

show	Show running system information
lacp	LACP protocol
counters	LACP counters
interface	Specify a port-channel
if0	Type: interface-mrange
__readonly__	
TABLE_interface	Port channel table
interface	Type: interface Port channel
TABLE_member	Member port info
port	Type: interface Member port
pdus-sent	Type: longlong Number of PDUs sent
pdus-rcvd	Type: longlong Number of PDUs received
marker-sent	Type: longlong Number of Marker PDUs sent
marker-rcvd	Type: longlong Number of Marker PDUs received
marker-resp-sent	Type: longlong Number of Marker response PDUs sent
marker-resp-rcvd	Type: longlong Number of Marker response PDUs received

pkt-errors	Type: longlong Number of packet errors
illegal-rcvd	Type: longlong Number of illegal packets received
unknown-rcvd	Type: longlong Number of unknown packets received

Command Modes

- /exec

show lacp interface

show lacp interface [*if0*] [**__readonly__** *interface operational-state channel-group port-channel pdus-sent pdus-rcvd marker-sent marker-rcvd marker-resp-sent marker-resp-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
if0	Type: interface
__readonly__	
interface	Type: interface Interface ID
channel-group	Type: integer Channel Group
port-channel	Type: interface Port Channel
lag-id	Type: string LAG Id
active-time	Type: string active-time

operational-state	Operational State **invalid value: 0** InvalidSel **not-processed value: 1** NotProcessedPort **individual value: 2** IndividualPort **suspended value: 3** SuspendedPort **hot-standby value: 4** HotStandbyPort **up value: 5** SelectedPort
agg-or-indiv	Type: integer Aggregate or individual port
pdus-rcvd	Type: longlong PDUs received
pdus-sent	Type: longlong PDUs sent
marker-rcvd	Type: longlong Markers received
marker-sent	Type: longlong Markers sent
marker-resp-rcvd	Type: longlong Marker response received
marker-resp-sent	Type: longlong Marker response sent
unknown-rcvd	Type: longlong Unknown pdus received
illegal-rcvd	Type: longlong Illegal pdus received

localport	Local port information
local-interface	Type: interface Interface
local-mac-address	Type: string MAC Address
local-system-priority	Type: hex System Priority
local-port-priority	Type: hex Port Priority
local-port-num	Type: hex Port Number
local-op-key	Type: integer Operational Key
local-admin-state	Type: string Local Admin State
local-oper-state	Type: string Local Oper State
local-activity	Mode **passive value: 0** Passive state **active value: 1** Active state **unknown value: 2** Invalid state
local-timeout	Timeout **Long value: 0** Long timeout (30) **Short value: 1** Short timeout (1)

local-sync	Synchronization **IN_SYNC value: 1** In sync **NOT_IN_SYNC value: 0** Not in sync
local-distributing	Distributing **true value: 1** Distributing **false value: 0** Not distributing
local-collecting	Collecting **true value: 1** Collecting **false value: 0** Not collecting
partner-info-timeout	Partner information refresh timeout **Long value: 0** Long timeout (90) **Short value: 1** Short timeout (3)
partnerport	Partner port information
partner-interface	Type: string Partner Interface
partner-mac-address	Type: string Partner MAC Address
partner-system-priority	Type: hex Partner System Priority
partner-port-priority	Type: hex Partner Port Priority
partner-port-num	Type: hex Partner Port Number

partner-op-key	Type: integer Operational Key
partner-admin-state	Type: string Partner Admin State
partner-oper-state	Type: string Partner Oper State
partner-activity	Mode **passive value: 0** Passive state **active value: 1** Active state **unknown value: 2** Invalid state
partner-timeout	Timeout **Long value: 0** Long timeout (30) **short value: 1** Short timeout (1)
partner-sync	Synchronization **IN_SYNC value: 1** In sync **NOT_IN_SYNC value: 0** Not in sync
partner-distributing	Distributing **true value: 1** Distributing **false value: 0** Not distributing

partner-collecting	Collecting **true value: 1** Collecting **false value: 0** Not collecting

Command Modes

- /exec

show lacp issu-impact

show lacp issu-impact [**__readonly__ TABLE_interface** *interface*]

Syntax Description

show	Show running system information
lacp	Show LACP information
issu-impact	Check for ISSU readiness
__readonly__	
TABLE_interface	Port-channel issu-impact member list
interface	Type: interface Port-channel Member

Command Modes

- /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	Specify a port-channel
if0	Type: interface-mrange
__readonly__	
TABLE_interface	Port channel table
interface	Type: interface Port channel
TABLE_member	Member port info
port	Type: interface Member port
partner-system-id	Type: string Partner System ID
partner-port-num	Type: hex Partner Port Number
partner-age	Type: integer Partner age
partner-flags	Type: string Partner flags
partner-port-priority	Type: integer Partner Port Priority
partner-oper-key	Type: hex Partner oper key

partner-port-state	Type: hex Partner port state

Command Modes

- /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	Specify a port-channel
if0	Type: interface-mrange
__readonly__	
TABLE_interface	Port channel table
interface	Type: interface Port channel
aggr-mac-address	Type: string Mac Address of aggregator
local-system-priority	Type: hex Local System Priority
local-system-id	Type: string Local System-Id
local-admin-key	Type: hex Local admin key
local-oper-key	Type: hex Local oper key
partner-system-priority	Type: hex Partner System Priority
partner-system-id	Type: string Partner System-Id

partner-oper-key	Type: hex Partner oper key
max-delay	Type: integer Maximum delay between aggregator and mac-client
agg-or-indiv	Type: integer Aggregate or individual port
port-list	Type: interface List of port names for member ports

Command Modes

- /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__	
system-priority	Type: integer System priority
system-mac	Type: string System mac address

Command Modes

- /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

__readonly__	
number_of_search_maps	Total number of search maps configured
search_map_count	Type: integer Ldap Search map count
TABLE_ldap_searchmaps	Ldap search map configuration
map_name	Type: string Search map name
map_baseDN	Type: string Ldap base DN
map_attr	Type: string Search map attribute
map_filter	Type: string Ldap Search filter
show	Show running system information
ldap-search-map	Show LDAP configuration information

Command Modes

- /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*]

Syntax Description

__readonly__	
TABLE_ldap_hosts	Ldap host configuration
global_timeout	Ldap host global timeout
global_port	Ldap host global port
global_deadtime	Ldap host global deadtime
total_number_of_server	Total number of ldap hosts configured
g_servers_count	Type: integer Total number of ldap hosts configured
g_timeout	Type: integer global timeout value
g_port	Type: integer Global ldap port
g_deadtime	Type: integer Global deadtime value
ldap_host	Type: string Ldap host
h_idletime	Type: integer Ldap host idletime
h_test_user	Type: string Ldap host testuser
h_test_passwd	Type: string Ldap host password
h_test_dn	Type: string Ldap testuser dn

h_timeout	Type: integer Ldap host timeout
h_port	Type: integer Ldap host port
h_rootDN	Type: string Ldap host RootDN
h_ssl_enable	Ldap host ssl configuration **false value: 0** **true value: 1**
show	Show running system information
ldap-server	Show LDAP configuration information

Command Modes

- /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
__readonly__	
total_number_of_groups	Total number of Ldap groups configured
total_groups_count	Type: integer Ldap group count
TABLE_groups	LDAP Group information
g_name	Type: string Ldap group name
g_vrf	Type: string LDAP group vrf
g_mode	LDAP group mode **UnSecure value: 0** **Secure value: 1**
is_bind_and_search	Type: string Ldap Authentication bind or search
g_append_with_baseDN	Type: string LDAP baseDN append information
g_compare_or_bind	Type: string LDAP bind or compare
g_cmp_passwd_attr	Type: string LDAP compare password attribute

user-server-group	Ldap server group validation **enabled value: 1**
Cert-DN-match	Ldap group CERT-DN match **enabled value: 1**
auth_mechanism	Type: string Ldap server group authentication mechanism
TABLE_g_servers	LDAP group server information
g_server	Type: string LDAP group host
g_port	Type: integer LDAP group host port
g_timeout	Type: integer LDAP griup host timeout
g_search_map	Type: string LDAP group search map

Command Modes

- /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
host0	Type: string DNS name or IP address
__readonly__	
server_state	Show state of server **alive value: 2** **dead value: 1** **not monitored value: 3**
clock_time	Type: string Show clock time in terms of hours, minutes and seconds
monitoring_statistics	Monitoring Statistics
time_in_pstate	Type: string Time in previous state
ndead	Type: uinteger Number of times dead
tt_in_dstate	Type: string Total time in dead state
auth_statistics	Authentication Statistics
acct_statistics	Accounting Statistics

auth_failed_transactions	Type: uinteger Authentication: Failed transactions
auth_succ_transactions	Type: uinteger Authentication: Successful transactions
auth_req_sent	Type: uinteger Authentication: Requests sent
auth_req_timedout	Type: uinteger Authentication: Requests timedout
auth_resp_no_match	Type: uinteger Authentication: Responses with no matching requests
auth_resp_not_processed	Type: uinteger Authentication: Responses not processed
auth_resp_error	Type: uinteger Authentication: Responses containing errors
acct_failed_transactions	Type: uinteger Accounting: Failed transactions
acct_succ_transactions	Type: uinteger Accounting: Successful transactions
acct_req_sent	Type: uinteger Accounting: Requests sent
acct_req_timedout	Type: uinteger Accounting: Requests timedout
acct_resp_no_match	Type: uinteger Accounting: Responses with no matching requests
acct_resp_not_processed	Type: uinteger Accounting: Responses not processed
acct_resp_error	Type: uinteger Accounting: Responses containing errors

Command Modes

- /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__	Read only
lic_file_name	Type: string Name of the license file
lic_file_contents	Type: string License file contents

Command Modes

- /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__	Read only
lic_file_name	Type: string Name of the license file

Command Modes

- /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
license-file	Type: string length: 32 Show the contents of license file __nil__ Please install a license before using this command.
__readonly__	Read only
lic_file_contents	Type: string License file contents

Command Modes

- /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__	Read only
host_id	Type: string unique id for this host for licensing

Command Modes

- /exec

show license reserved

show license reserved

Syntax Description

show	show commands
license	Display licensing information
reserved	Display reserved licenses information

Command Modes

- /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*]

Syntax Description

show	Show running system information
license	show the contents of all the license files
usage	Show license usage table
detail	Show license usage table
license-feature	Type: string length: 30 Show services using license
__readonly__	Read only
TABLE_show_lic_usage	License usage
feature_name	Type: string Name of the feature
lic_installed	Type: string Is the license installed?
count	Type: string License count
status	Type: string License status
expiry_date	Type: string Expiry date of the license
comments	Type: string License comments
application_name	Type: string Name of the application using the license

Command Modes

- /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__	
TABLE_ps_output	Process info for console login
TABLE_ps_output_aux	Process info for com1 login
speed	Type: integer Port speed(baud)
databits	Type: integer Bits per byte
stopbits	Type: integer Bits
parity	Type: string Parity
modem_in	Type: string Modem In
modem_init_str	Type: string Modem Init-String
stat	Type: string Statistics
ps	Type: string Login process
speed_aux	Type: integer Port speed(baud)
databits_aux	Type: integer Bits per byte

stopbits_aux	Type: integer Bits
parity_aux	Type: string Parity
modem_in_aux	Type: string Modem In
modem_init_str_aux	Type: string Modem Init-String
hw_fc_aux	Type: string Hardware Flowcontrol
stat_aux	Type: string Statistics
ps_aux	Type: string Login process

Command Modes

- /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
show	Show running system information
line	Show the line configuration
__readonly__	
TABLE_ps_output	Process info for console login
speed	Type: integer Port speed(baud)
databits	Type: integer Bits per byte
stopbits	Type: integer Bits
parity	Type: string Parity
modem_in	Type: string Modem In
modem_init_str	Type: string Modem Init-String
stat	Type: string Statistics
ps	Type: string Login process

Command Modes

- /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__	
output	Type: string output string

Command Modes

- /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__	
input	Type: string user input string

Command Modes

- /exec

show lisp stats-cache

show lisp stats-cache [**vrf** {*vrf-name*| *vrf-known-name*}]

Syntax Description

show	Show running system information
lisp	LISP show commands *Not available in this release.*
stats-cache	Show dynamic statistics cache
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name

Command Modes

- /exec

show lldp dcbx interface

show lldp dcbx interface *if0* [**__readonly__** *interface* [*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
dcbx	Show dcbx information
interface	Show lldp interface information
if0	Type: interface Enter interface
__readonly__	
interface	Type: interface Interface ID
l_op_ver	Type: uinteger local dcbx control operation version
l_max_ver	Type: uinteger local dcbx control maximum version
l_seq_no	Type: uinteger local dcbx control seq no
l_ack_no	Type: uinteger local dcbx control ack no
l_feature	Type: uinteger local feature
l_cfg_len	Type: uinteger local feature config length
l_cfg	Type: uinteger local feature config
p_op_ver	Type: uinteger peer dcbx control operation version

p_max_ver	Type: uinteger peer dcbx control maximum version
p_seq_no	Type: uinteger peer dcbx control seq no
p_ack_no	Type: uinteger peer dcbx control ack no
p_tlv_type	Type: uinteger peer TLV type field
p_tlv_len	Type: uinteger peer TLV len field
p_tlv_value	Type: uinteger peer TLV value field

Command Modes

- /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 vlan_id neigh_count*]

Syntax Description

show	Show running system information
lldp	Show information about lldp
entry	Show lldp entry information
sys-name	Type: string WORD Peer's System name
__readonly__	
neigh_hdr	Type: string
TABLE_entry	Table Entry
chassis_type	Type: uinteger Chassis ID type
chassis_id	Type: string Chassis ID
port_type	Type: uinteger Port ID type
port_id	Type: string Port ID
l_port_id	Type: string Port ID
port_desc	Type: string Port description
sys_name	Type: string System name
sys_desc	Type: string System description

ttl	Type: uinteger Time to live
capability	Type: uinteger Capability
mgmt_addr_type	Type: uinteger Management Address type
mgmt_addr	Type: string Management Address
vlan_id	Type: uinteger Vlan ID
neigh_count	Type: integer

Command Modes

- /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
if0	Type: interface Enter interface
__readonly__	
interface	Type: interface Interface ID
tx_en	Type: string tx enable
rx_en	Type: string rx enable
dcbx_en	Type: string dcbx enable
port_mac	Type: string Port mac address
tlv_type	Type: uinteger TLV type field
tlv_len	Type: uinteger TLV len field
tlv_value	Type: uinteger TLV value field
l_op_ver	Type: uinteger local dcbx control operation version

l_max_ver	Type: uinteger local dcbx control maximum version
l_seq_no	Type: uinteger local dcbx control seq no
l_ack_no	Type: uinteger local dcbx control ack no
l_feature	Type: uinteger local feature
l_cfg_len	Type: uinteger local feature config length
l_cfg	Type: uinteger local feature config
p_op_ver	Type: uinteger peer dcbx control operation version
p_max_ver	Type: uinteger peer dcbx control maximum version
p_seq_no	Type: uinteger peer dcbx control seq no
p_ack_no	Type: uinteger peer dcbx control ack no
p_tlv_type	Type: uinteger peer TLV type field
p_tlv_len	Type: uinteger peer TLV len field
p_tlv_value	Type: uinteger peer TLV value field

Command Modes

- /exec

show lldp neighbors

show lldp neighbors [**interface** *if*] [**__readonly__** *neigh_hdr* **TABLE_nbor** *chassis_type chassis_id l_port_id ttl capability port_type port_id 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	Show lldp neighbor information on an interface
if	Type: interface Enter interface
__readonly__	
neigh_hdr	Type: string
TABLE_nbor	Neighbor Table
chassis_type	Type: uinteger Chassis ID type
chassis_id	Type: string Chassis ID
l_port_id	Type: string Local port ID
ttl	Type: uinteger Time to live
capability	Type: uinteger Capability
port_type	Type: uinteger Port ID type
port_id	Type: string Port ID
mgmt_addr_type	Type: uinteger Management Address type

mgmt_addr	Type: string Management Address
neigh_count	Type: integer

Command Modes

- /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 mgmt_addr_type mgmt_addr vlan_id neigh_count*]

Syntax Description

show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	Show lldp neighbor information on an interface
if	Type: interface Enter interface
detail	Show lldp neighbor detail information
__readonly__	
neigh_hdr	Type: string
TABLE_nbor_detail	Neighbor detail Table
chassis_type	Type: uinteger Chassis ID type
chassis_id	Type: string Chassis ID
port_type	Type: uinteger Port ID type
port_id	Type: string Port ID
l_port_id	Type: string Port ID
port_desc	Type: string Port description
sys_name	Type: string System name

sys_desc	Type: string System description
ttl	Type: uinteger Time to live
capability	Type: uinteger Capability
mgmt_addr_type	Type: uinteger Management Address type
mgmt_addr	Type: string Management Address
vlan_id	Type: uinteger Vlan ID
neigh_count	Type: integer

Command Modes

- /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__	
portid_subtype	Type: uinteger portid-subtype for LLDP TLV and MIBs

Command Modes

- /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
__readonly__	
ttl	Type: uinteger Time to Live for lldp info
reinit	Type: uinteger Interface reinit timer
tx_interval	Type: uinteger Wait interval between successive transmit
tx_delay	Type: uinteger Delay between successive frame transmissions
hold_mplier	Type: uinteger Hold multiplier for ttl
notification_interval	Type: uinteger Notification interval for SNMP trap

Command Modes

- /exec

show lldp tlv-select

show lldp tlv-select [**__readonly__** *management-address port-description port-vlan system-capabilities system-description system-name dcbxp*]

Syntax Description

show	Show running system information
lldp	Show information about lldp
tlv-select	Show lldp tlv-select
__readonly__	
management-address	Type: string Management address
port-description	Type: string Port description
port-vlan	Type: string Port vlan
system-capabilities	Type: string System capabilities
system-description	Type: string System description
system-name	Type: string System name
dcbxp	Type: string DCBXP

Command Modes

- /exec

show lldp traffic

show lldp traffic [**__readonly__** *tx_cnt aged_cnt rx_cnt rx_err disc_cnt unrecognized_tlv*]

Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
__readonly__	
tx_cnt	Type: uinteger Transmit count
aged_cnt	Type: uinteger Aged out count
rx_cnt	Type: uinteger Received count
rx_err	Type: uinteger Received error count
disc_cnt	Type: uinteger Disconnect count
unrecognized_tlv	Type: uinteger Unrecognized TLV count

Command Modes

- /exec

show lldp traffic interface

show lldp traffic interface *if* [**__readonly__** *interface tx_cnt aged_cnt rx_cnt rx_err disc_cnt unrecognized_tlv*]

Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
interface	Show lldp traffic counters on an interface
if	Type: interface Enter interface
__readonly__	
interface	Type: interface Interface ID
tx_cnt	Type: uinteger Transmit count
aged_cnt	Type: uinteger Aged out count
rx_cnt	Type: uinteger Received count
rx_err	Type: uinteger Received error count
disc_cnt	Type: uinteger Disconnect count
unrecognized_tlv	Type: uinteger Unrecognized TLV count

Command Modes

- /exec

show locator-led status (pfm)

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__	
TABLE_loc_led_stat	
component	Type: string
status	Type: string

Command Modes

- /exec

show locator-led status (satmgr)

show locator-led status

Syntax Description

show	Show running system information
locator-led	Blink locator LED on device
status	View which modules have locator LED set

Command Modes

- /exec

show logging

show logging

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile

Command Modes

- /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 Modes

- /exec

show logging info

show logging info

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
info	Show logging configuration

Command Modes

- /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*]

Syntax Description

show	Show running system information
logging	logging information
ip	IP configuration
access-list	Access-list
cache	logging
detail	Show additional details about entries in cache
__readonly__	
disp_flags	Type: uinteger Display flags
sgt	Type: uinteger SGT
src_ip	Type: ipaddr Source IP
dst_ip	Type: ipaddr Dest IP
src_port	Type: uinteger Source port
dst_port	Type: uinteger Dest port
if_index	Type: interface Interface
proto	Type: uinteger Protocol
hit_cnt	Type: uinteger Hits

Command Modes

- /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
__readonly__	
num_entries	Type: uinteger Max flows
seconds	Type: uinteger Log-update interval in seconds
num_packets	Type: uinteger threshold

Command Modes

- /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
i0	Type: integer min: 1 max: 9999 Enter number of lines to display

Command Modes

- /exec

show logging level (licmgr)

show logging level {**license**| **licmgr**}

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
license	Show Licensing logging configuration
licmgr	Show Licensing logging configuration

Command Modes

- /exec

show logging level (sksd)

show logging level {**keystore**| **sksd**}

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
keystore	Show Keystore logging configuration
sksd	show Keystore/sksd logging configuration

Command Modes

- /exec

show logging level (syslog)

show logging level [**auth**| **authpriv**| **cron**| **daemon**| **ftp**| **kernel**| **local0**| **local1**| **local2**| **local3**| **local4**| **local5**| **local6**| **local7**| **lpr**| **mail**| **news**| **syslog**| **user**| **uucp**]

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
auth	Show Authorization System logging configuration
authpriv	Show Authorization (Private) logging configuration
cron	Show Cron/at facility logging configuration
daemon	Show System daemons logging configuration
ftp	Show File Transfer System logging configuration
kernel	Show kernel logging configuration
local0	Show Local use daemons logging configuration
local1	Show Local use daemons logging configuration
local2	Show Local use daemons logging configuration
local3	Show Local use daemons logging configuration
local4	Show Local use daemons logging configuration
local5	Show Local use daemons logging configuration
local6	Show Local use daemons logging configuration
local7	Show Local use daemons logging configuration
lpr	Show Line Printer System logging configuration
mail	Show Mail System logging configuration
news	Show USENET news logging configuration
syslog	Show Internal Syslog Messages logging configuration
user	Show user process logging configuration

uucp	Show Unix-to-Unix copy system logging configuration

Command Modes

- /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 Modes

- /exec

show logging level acllog

show logging level acllog

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
acllog	Show acllog logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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
cfs	Show CFS logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging level diagnostic device_test

show logging level diagnostic device_test

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
device_test	Show device_test logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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
eigrp-ptag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events length: 20 Process tag

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging level fex

show logging level fex

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fex	Show FEX logging configuration

Command Modes

- /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 Modes

- /exec

show logging level glbp

show logging level glbp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
glbp	Show glbp logging settings

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging level ip 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	Display IP information
pim	Show pim logging configuration

Command Modes

- /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	Show ipv6 Conf logging configuration

Command Modes

- /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
ipqos	Show ipqosmgr logging configuration

Command Modes

- /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 Modes

- /exec

show logging level ipv6 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	Display IPv6 information
pim	Show pim6 logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /exec

show logging level l2pt

show logging level l2pt

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
l2pt	Show l2pt logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging level oim

show logging level oim

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
oim	Display OIM information

Command Modes

- /exec

show logging level onep

show logging level onep

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
onep	One Platform

Command Modes

- /exec

show logging level orib

show logging level orib

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
orib	Show ORIB logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /exec

show logging level patch-installer

show logging level patch-installer

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
patch-installer	Show patch manager logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging level pong

show logging level pong

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pong	Show Pong logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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	Display IP information
ipv4	Display IP information
multicast	Display multicast information

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging level udld

show logging level udld

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
udld	Show udld logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging level vntag

show logging level vntag

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vntag	Show vntag logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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
vshd	Show vshd logging configuration

Command Modes

- /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 Modes

- /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
xbar	Show xbar logging configuration

Command Modes

- /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 Modes

- /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
s1	Type: string length: 8 Enter hour, minutes, seconds of duration as HH:MM:SS

Command Modes

- /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 Modes

- /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
i0	Type: integer Enter starting sequence number
end-seqn	Show messages from logfile from a given end-sequence-number
i1	Type: integer Enter ending sequence number

Command Modes

- /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
i0	Type: integer-range Enter year in YYYY format
s0	Type: string length: 3 Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
i1	Type: integer-range Enter day of month in dd format
s1	Type: string length: 8 Enter hour, minutes, seconds as HH:MM:SS
end-time	Show messages from logfile up to a given end-time
i2	Type: integer-range Enter year in YYYY format
s2	Type: string length: 3 Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
i3	Type: integer-range Enter day of month in dd format
s3	Type: string length: 8 Enter hour, minutes, seconds as HH:MM:SS

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show logging nvram

show logging nvram [**last** *i0*]

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
nvram	Show NVRAM log
last	Show last few lines of nvram log
i0	Type: integer min: 1 max: 100 Enter number of lines to display

Command Modes

- /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	show card first power on information
card-boot-history	show card boot history
endtime	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
s0	Type: string length: 128 End time format - mm/dd/yy-HH:MM:SS
error-stats	Show OBFL error statistics
port	Show OBFL error statistics for a port
i0	Type: integer min: 1 max: 64

common_options	give the options **boot-uptime value: 11** boot-uptime **device-version value: 12** device-version **environmental-history value: 5** environmental-history **exception-log value: 17** exception-log **interrupt-stats value: 6** interrupt-stats **obfl-history value: 13** obfl-history **stack-trace value: 4** stack-trace **status value: 16** status
port1	Show OBFL error statistics for a port
i1	Type: integer min: 1 max: 64
module	Show OBFL information for Module
module	Type: integer Enter module number
endtime1	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
s1	Type: string length: 128 End time format - mm/dd/yy-HH:MM:SS
port3	Show OBFL error statistics for a port
i3	Type: integer min: 1 max: 64
port4	Show OBFL error statistics for a port

i4	Type: integer min: 1 max: 64
starttime	Show OBFL logs from start time mm/dd/yy-HH:MM:SS
s2	Type: string length: 128 Start time format - mm/dd/yy-HH:MM:SS
endtime2	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
s3	Type: string length: 128 End time format - mm/dd/yy-HH:MM:SS
port6	Show OBFL error statistics for a port
i6	Type: integer min: 1 max: 64
port7	Show OBFL error statistics for a port
i7	Type: integer min: 1 max: 64
starttime1	Show OBFL logs from start time mm/dd/yy-HH:MM:SS
s4	Type: string length: 128 Start time format - mm/dd/yy-HH:MM:SS
endtime3	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
s5	Type: string length: 128 End time format - mm/dd/yy-HH:MM:SS
port8	Show OBFL error statistics for a port
i8	Type: integer min: 1 max: 64
port9	Show OBFL error statistics for a port
i9	Type: integer min: 1 max: 64

obfl-logs	Show OBFL Tech Support Log.
timeout-drops	Show OBFL Timeout Drops logs
port10	Show OBFL statistics per port basis
i10	Type: integer min: 1 max: 64
credit-loss	Show OBFL Credit Loss logs
last	Show last min/hour/day logs
last_no	Type: integer Duration in min/hrs/day
minutes	entry in minutes
hours	entry in hours
days	entry in days
request-timeout	Show OBFL request timeout log
flow-control	Show OBFL Flow Control log
pause-count	Show Flow Control Pause Count Logs
pause-events	Show Flow Control Pause Event Logs

Command Modes

- /exec

show logging server

show logging server

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
server	Show server logging configuration

Command Modes

- /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 Modes

- /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 Modes

- /exec

M Show Commands

- show mac-list, page 2101
- show mac address-table (l2fm), page 2102
- show mac address-table (l2fm), page 2104
- show mac address-table aging-time, page 2107
- show mac address-table count, page 2108
- show mac address-table learning-mode, page 2110
- show mac address-table multicast, page 2111
- show mac address-table notification mac-move, page 2112
- show mac vdc, page 2113
- show mcectest, page 2114
- show mcectest mcec interface, page 2115
- show mgmt-policy, page 2116
- show module, page 2117
- show module bandwidth-fairness, page 2131
- show module fex, page 2132
- show module supported, page 2134
- show module uptime, page 2135
- show monitor, page 2136
- show monitor session, page 2140
- show mpls label range, page 2147
- show mpls label statistics, page 2148
- show mpls switching, page 2149
- show mpls switching clients, page 2152
- show mroute, page 2154

- show mroute flood vlan, page 2158
- show mroute summary, page 2159
- show multicast ftag, page 2161
- show multicast trees, page 2162
- show mvpn bgp, page 2165
- show mvpn mdt encap, page 2166
- show mvpn mdt route, page 2167
- show mvpn snmp mib genericTable, page 2168
- show mvpn snmp mib mvpnBgpMdtUpdateTable, page 2169
- show mvpn snmp mib mvpnMdtDataTable, page 2171
- show mvpn snmp mib mvpnMdtDefaultTable, page 2173
- show mvpn snmp mib mvpnMdtJnRcvTable, page 2174
- show mvpn snmp mib mvpnMdtJnSendTable, page 2176
- show mvpn snmp mib mvpnMrouteMdtTable, page 2178
- show mvpn snmp mib mvpnMvrfNumber, page 2180
- show mvpn snmp mib mvpnNotificationEnable, page 2181
- show mvpn snmp mib mvpnTunnelTable, page 2182

show mac-list

show mac-list [*mac_list_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
mac_list_name	Type: string pattern: [!-~]* length: 63 Name of mac list
seq	Sequence number
seq_no	Type: uinteger min: 1 max: 4294967294 Sequence number
mac_addr	Type: ethernet MAC address
mac_mask	Type: ethernet MAC mask
__readonly__	
TABLE_mac_list	
name	Type: string
seq	Type: uinteger
action	Type: string
rule	Type: string

Command Modes

- /exec

show mac address-table (l2fm)

show mac address-table [**static**| **dynamic**| **secure**] [[**address1** *mac-addr*| **switch-id** *swid* [**sub-switch-id** *sswid*]| **vlan1** *id*]+| [**address** *mac-addr*| **interface** *interface-name*| **vlan** *id*]+] [**__readonly__** *l2entry header* **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	Display Static Entries
dynamic	Display Dynamic Entries
secure	Display Secure Entries *Not available in this release.*
address	address
address1	address
mac-addr	Type: ethernet MAC Address
switch-id	Remote Switch ID
swid	Type: integer min: 1 max: 4095 Switch ID
sub-switch-id	Remote Sub Switch ID
sswid	Type: integer min: 0 max: 255 Sub Switch ID
interface	Interface
interface-name	Type: interface Interface name
vlan	VLAN
vlan1	VLAN

id	Type: integer min: 1 max: 4094 VLAN ID
__readonly__	
header	Type: string Header
l2entry	Type: string L2 Entry String
TABLE_mac_address	Mac address table
disp_type	Type: string GateWay or Primary Entry or OTV or None
disp_vlan	Type: uinteger VLAN
disp_mac_addr	Type: ethernet MAC Address
disp_is_static	Type: bool Static/Dynamic
disp_age	Type: uinteger Age of the Mac
disp_is_secure	Type: bool Is mac secure
disp_is_ntfy	Type: bool Is mac notified
disp_port	Type: string Interface/port info of the mac

Command Modes

- /exec

show mac address-table (l2fm)

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
module	Type: integer min: 1 max: 16 Module Number
count	Number of entries
static	Display Static Entries
dynamic	Display Dynamic Entries
secure	Display Secure Entries *Not available in this release.*
address	address
address1	address
mac-addr	Type: ethernet MAC Address
switch-id	Remote Switch ID
swid	Type: integer min: 1 max: 4095 Switch ID
sub-switch-id	Remote Sub Switch ID
sswid	Type: integer min: 0 max: 255 Sub Switch ID
interface	Interface

interface-name	Type: interface Interface name
vlan	VLAN
vlan1	VLAN
id	Type: integer min: 1 max: 4094 VLAN ID
vdc	VDC ID or Name
vdc1	VDC ID or Name
vdc	Type: integer min: 1 max: 16 VDC ID
e-vdc	Type: userdef Select VDC ID that match VDC Name
fe	Forwarding Engine Instance ID(Zero based)
fe1	Forwarding Engine Instance ID(Zero based)
feid	Type: integer min: 0 max: 15 FE ID value
hex	display swid/sswid/lid in hex
__readonly__	
header	Type: string Header
pi_e	Type: string Primary Interface of EARL
age	Type: integer min: 1 max: 1000000 Last seen age in seconds
rm	Type: string RM

ifname	Type: string interface name as string
sec	Type: string secure
ntfy	Type: string notify
entrycount	Type: string Number of L2 entries
l2entry	Type: string L2 Entry String
type	Type: string MAC type - Static or Dynamic

Command Modes

- /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
__readonly__	
age_str	Type: string Age info
age	Type: integer min: 1 max: 1000000 Age time

Command Modes

- /exec

show mac address-table count

show mac address-table count [**static**| **dynamic**] [**vlan** *id*| **interface** *interface-name*| **switch-id** *swid* [**sub-switch-id** *sswid*]]+ [**__readonly__ TABLE-macaddtblcount** *id-out count_str total_cnt dyn_cnt static_cnt secure_cnt otv_cnt*]

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
count	Number of MAC entries
static	Display Static Entries
dynamic	Display Dynamic Entries
vlan	VLAN
id	Type: integer min: 1 max: 4094 VLAN ID
interface	Interface
interface-name	Type: interface Interface name
switch-id	Remote Switch ID
swid	Type: integer min: 1 max: 4095 Switch ID
sub-switch-id	Remote Sub Switch ID
sswid	Type: integer min: 0 max: 255 Sub Switch ID
__readonly__	
TABLE-macaddtblcount	MAC Address Dynamic Count Table

id-out	Type: integer MAC Address Table VLAN ID
count_str	Type: string Count info
total_cnt	Type: integer Total count
dyn_cnt	Type: integer Dynamic count
static_cnt	Type: integer Static count
secure_cnt	Type: integer Secure count
otv_cnt	Type: integer OTV count

Command Modes

- /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 *Not available in this release.*
vlan	VLAN
id	Type: integer min: 1 max: 4094 VLAN ID
__readonly__	
learning_mode_str	Type: string Learning Mode
vlan_id	Type: integer min: 1 max: 4094 VLAN ID
mode_str	Type: string Mode

Command Modes

- /exec

show mac address-table multicast

show mac address-table multicast [**vlan** *vlan-id*] [**__readonly__ TABLE_vlan** *vlan-id mac-addr type age oifs*]

Syntax Description

show	Show running system information
mac	MAC configuration commands
address-table	MAC Address Table
multicast	mcast mac OIF Static Entry *Not available in this release.*
vlan	VLAN/BD
vlan-id	Type: vlan VLAN/BD
__readonly__	
TABLE_vlan	
vlan-id	Type: integer
mac-addr	Type: ethernet
type	Type: string
age	Type: integer
oifs	Type: interface

Command Modes

- /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
address-table	MAC Address Table
notification	Display Notification Information
mac-move	Mac Move Notification
__readonly__	Read Only
TABLE_mac_notif	Mac address notification table
disp_mm_status	Type: uinteger Mac Move Status
disp_mm_triggers	Type: uinteger # of triggers
disp_macs_added	Type: uinteger Number of MACs added since system bring up
disp_macs_removed	Type: uinteger Number of MACs removed since system bring up
disp_macs_moved	Type: uinteger Number of MACs moved since system bring up

Command Modes

- /exec

show mac vdc

show mac vdc *vdc_id* [**__readonly__** *vdc_id mac_address*]

Syntax Description

show	show
mac	show management port mac address of the given vdc
vdc	show management port mac address of this vdc id
vdc_id	Type: integer min: 1 max: 4 please enter vdc id
__readonly__	
vdc_id	Type: string
mac_address	Type: string

Command Modes

- /exec

show mcectest

show mcectest *arg* [**__readonly__** *arg_resp*]

Syntax Description

show	Show running system information
mcectest	Show MCECTEST related information
arg	Type: string Enter your arguments
__readonly__	Read Only
arg_resp	Type: string Response

Command Modes

- /exec

show mcectest mcec interface

show mcectest mcec interface *if* **[use-cache] [vdc-id]** [**_readonly_** *mcec_mode*]

Syntax Description

show	Show running system information
mcectest	Show MCECTEST related information
mcec	Show MCECM information
interface	Specify interface
use-cache	Use cache
readonly	
mcec_mode	Type: string MCEC port mode

Command Modes

- /exec

show mgmt-policy

show mgmt-policy {*policy-name*| **all**} [**__readonly__ TABLE_mgmt_policy** *mgt-pol-name* [*source-ip source-mask*] [*source-ip6*] [*src-port-rangestart src-port-range-end*] [*source-port*] [*dst-port-rangestart dest-port-range-end*] [*dest-port*]]

Syntax Description

show	Show running system information
mgmt-policy	PM Management policy
policy-name	Type: string Name of the policy
all	Show all policies
__readonly__	
TABLE_mgmt_policy	Management policy Details
mgt-pol-name	Type: string
source-ip	Type: ipaddr
source-mask	Type: string
source-ip6	Type: ipv6addr
src-port-rangestart	Type: integer
src-port-range-end	Type: integer
source-port	Type: integer
dst-port-rangestart	Type: integer
dest-port-range-end	Type: integer
dest-port	Type: integer

Command Modes

- /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
module	Type: integer min: 1 max: 30 Enter module number
s0	Type: xbar-str Show xbar information
santa-cruz-range	Type: integer-range please enter the xbar number
fabric	Show fabric information
santa-cruz-range	Type: integer-range please enter the fabric number
__readonly__	
TABLE_modinfo	Show Module info
modinf	Type: uinteger Module
ports	Type: uinteger Num Ports
modtype	Type: string Module Type
model	Type: string Model

status

Status

present value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

active * value: 26

standby value: 23

	ha-standby value: 24 **initializing(vdc) value: 27** **ok value: 25** **ok(partial failure) value: 28**
TABLE_modpwrinfo	Mod Pwr Info
modpwr	Type: uinteger Module

pwrstat

Power Status

Unsupported(poweroff) value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

standby value: 23

ha-standby value: 24

ok value: 25

reason	Type: string Reason
TABLE_modwwninfo	Mod WWN Info
modwwn	Type: uinteger Module
sw	Type: string SW Ver
hw	Type: string HW Ver
slottype	Type: string Slot
TABLE_modapplinfo	Mod Appl image info
modappl	Type: uinteger Module
desc	Type: string Image desc
applver	Type: string Version
TABLE_modmacinfo	Mod MAC Info
modmac	Type: uinteger Module
mac	Type: string MAC
serialnum	Type: string Serial Num
TABLE_moddiaginfo	Mod diag info
mod	Type: uinteger Module

diagstatus	Type: string Diag status
TABLE_xbarinfo	Show xbar info
xbarinf	Type: uinteger Module
xbarports	Type: uinteger Num Ports
xbartype	Type: string Module Type
xbarmodel	Type: string Model

xbarstatus

Status

Unsupported(poweroff) value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

active * value: 26

standby value: 23

	ha-standby value: 24 **initializing(vdc) value: 27** **ok value: 25**
TABLE_xbarpwrinfo	Xbar Pwr Info
xbarpwr	Type: uinteger Module

xbarpwrstat

Power Status

Unsupported(poweroff) value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

active * value: 26

standby value: 23

	ha-standby value: 24 **initializing(vdc) value: 27** **ok value: 25**
xbarreason	Type: string Reason
TABLE_xbarwwninfo	Xbar WWN Info
xbarwwn	Type: uinteger Module
xbarsw	Type: string SW Ver
xbarhw	Type: string HW Ver
xbarwwnstr	Type: string WWN
TABLE_xbarmacinfo	Xbar MAC Info
xbarmac	Type: uinteger Module
xbarmacaddr	Type: string MAC
xbarserialnum	Type: string Serial Num

Command Modes

- /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
module	Type: integer min: 1 max: 30 Enter module number
bandwidth-fairness	Show bandwidth fairness status
__readonly__	
TABLE_fairness	
statement	Type: string

Command Modes

- /exec

show module fex

show module fex [**all**| *i*] [**__readonly__ TABLE_modinfo** *fexinf modinf ports modtype model status* **TABLE_modwwninfo** *fexwwn modwwn sw hw wwn* **TABLE_modmacinfo** *fexmac modmac mac serialnum*]

Syntax Description

show	Show running system information
module	Show module information
fex	Show fex module information
all	Show information for all FEX
i	Type: integer min: 100 max: 199 Enter FEX identifier
__readonly__	
TABLE_modinfo	Show Module info
fexinf	Type: uinteger Fex
modinf	Type: uinteger Module
ports	Type: uinteger Num Ports
modtype	Type: string Module Type
model	Type: string Model
status	Type: string Status
TABLE_modwwninfo	Mod WWN Info
fexwwn	Type: uinteger Fex

modwwn	Type: uinteger Module
sw	Type: string SW Ver
hw	Type: string HW Ver
wwn	Type: string WWN
TABLE_modmacinfo	Mod MAC Info
fexmac	Type: uinteger Fex
modmac	Type: uinteger Module
mac	Type: string MAC
serialnum	Type: string Serial Num

Command Modes

- /exec

show module supported

show module supported

Syntax Description

show	Show running system information
module	Show module information
supported	Show supported sw-card-types for this chassis

Command Modes

- /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__	
TABLE_uptimeinf	Show uptime info
slot	Type: string Slot
starttime	Type: date Start Time
daysup	Type: uinteger Days Up
hoursup	Type: uinteger Hours Up
minutesup	Type: uinteger Minutes Up
secondsup	Type: uinteger Seconds Up

Command Modes

- /exec

show monitor

show monitor [**__readonly__ TABLE_session** *session_number state state_reason description*]

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
__readonly__	Read only
TABLE_session	show monitor
session_number	Type: integer session id
state	State **up value: 1** **down value: 2** **error value: 3**

state_reason

State reason

The session is up value: 0

No hardware resource value: 1

No operational src/dst value: 2

Generic error value: 3

No sources configured value: 4

No dest configured value: 5

No src/dst configured value: 6

Session admin shut value: 7

Dst in wrong mode value: 8

Src in wrong mode value: 9

No erspan-id specified value: 10

Multi-dst not allowed value: 11

No valid VRF value: 12

No valid IP Address value: 13

No valid global IP Address value: 14

ACL capture feature disabled value: 15

ACL capture resource unavailable value: 16

ACL capture VDC mismatched value: 17

SPAN session not supported in F1/F2 only VDC value: 18

No route to destination IP address value: 20

ARP not resolved value: 21

Egress interface not resolved value: 22

SVI member not retrieved value: 23

FP route not found value: 24

Source MAC not retrieved value: 25

	Failed to retrieve .1q tag for egress SI value: 29 **Source switch-id not retrieved value: 26** **Source LID not retrieved value: 27** **Failed to retrieve FPC for egress fex intf value: 30** **Unsupported route (e.g. tunnel, lo) value: 31**
description	Type: string Session Description

Command Modes

- /exec

show monitor session

show monitor session {**all**| *session_number*| **range** *session_range*} **[brief]** [**__readonly__ TABLE_session** *session_number flow_id state state_reason description type session_mode* [*sources_rx*]+ [*sources_tx*]+ [*sources_both*]+ [*destinations*]+ [*acl_destinations*]+ [*source_vlans_rx*]+ [*src_ip*]+ [*erspan_id*]+ [*dst_ip*]+ [*origin_ip*]+ [*vrf_name*]+ [*acl_name*]+ [*erspan_ttl*]+ [*erspan_dscp*]+ [*source_vlans_tx*]+ [*source_vlans_both*]+ [*filter_vlans*]+ [*span_mtu*]+ [*span_rate*]+ [*span_sampling*]+ [*tree-id*]+ [*switchid*]+ [*err_desc*]+ [*l3_egress_span*]+ [*fex_ingress_intf*]+ [*sampling_capability*]+ [*mtu_capability*]+ [*rate_limit_cap*]+ [*mcbe*]+ [*switch_id*]+ [*erspan_v3_cap*]+ [*erspan_acl*]+ [*version*]+ [*erspan_granularity*]+ [*erspan_gran_cap*]+ [*erspan_v2_cap*]]

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
session	Show session info
all	All sessions
session_number	Type: integer min: 1 max: 32
range	Specify a range
session_range	Type: integer-mrange
brief	Brief information
__readonly__	Read only
TABLE_session	show monitor
flow_id	Type: integer erspan-id
description	Type: string Session Description
err_desc	Type: string Error Description
type	Session type

state	State **up value: 1** **down value: 2** **error value: 3**

state_reason	

State reason

The session is up value: 0

No hardware resource value: 1

No operational src/dst value: 2

Generic error value: 3

No sources configured value: 4

No dest configured value: 5

No src/dst configured value: 6

Session admin shut value: 7

Dst in wrong mode value: 8

Src in wrong mode value: 9

No erspan-id specified value: 10

Multi-dst not allowed value: 11

No valid VRF value: 12

No valid IP Address value: 13

No valid global IP Address value: 14

ACL capture feature disabled value: 15

ACL capture resource unavailable value: 16

ACL capture VDC mismatched value: 17

SPAN session not supported in F1/F2 only VDC value: 18

No route to destination IP address value: 20

ARP not resolved value: 21

Egress interface not resolved value: 22

SVI member not retrieved value: 23

FP route not found value: 24

Source MAC not retrieved value: 25

	Failed to retrieve .1q tag for egress SI value: 29 **Source switch-id not retrieved value: 26** **Source LID not retrieved value: 27** **Failed to retrieve FPC for egress fex intf value: 30** **Unsupported route (e.g. tunnel, lo) value: 31**
session_mode	Type: string Session mode
sources_rx	Type: interface List of ingress sources
sources_tx	Type: interface List of egress sources
sources_both	Type: interface List of sources in both directions
span_mtu	Type: uinteger SPAN MTU value
span_rate	Type: uinteger SPAN rate limit value
span_sampling	Type: uinteger SPAN sampling range
destinations	Type: interface List of destinations
acl_destinations	Type: interface List of interfaces that wont work for acl capture
dst_ip	Type: ipaddr ERSPAN destination IP
src_ip	Type: ipaddr ERSPAN source IP
origin_ip	Type: ipaddr ERSPAN origin IP at source router

erspan_id	Type: uinteger ERSPAN ID Value
vrf_name	Type: string ERSPAN session VRF
acl_name	Type: string ERSPAN session ACL
erspan_ttl	Type: uinteger ERSPAN TTL Value
erspan_dscp	Type: uinteger ERSPAN DSCP Value
source_vlans_rx	Type: vlan-mrange Source ingress vlan
source_vlans_tx	Type: vlan-mrange Source egress vlan
source_vlans_both	Type: vlan-mrange Source vlans in both directions
filter_vlans	Type: vlan-mrange Filter vlans
tree-id	Type: uinteger proxy layer2 gateway source tree-id
switchid	Type: uinteger proxy layer2 gateway source switchid
sampling_capability	Type: uinteger List of modules that support Sampling
mtu_capability	Type: uinteger List of modules that support MTU
l3_egress_span	Type: uinteger List of modules that support L3 Multicast Egress SPAN
fex_ingress_intf	Type: uinteger List of fex interfaces that wont work for ingress span

rate_limit_cap	Type: uinteger List of modules that support Rate Limit
mcbe	Type: uinteger List all modules that support multicast best effort
switch_id	Type: uinteger erspan_switch-id
erspan_v3_cap	Type: uinteger List of modules that support erspan version3
erspan_v2_cap	Type: uinteger List of modules that support erspan version2
erspan_acl	Type: uinteger List of modules that support ERSPAN ACL filtering
version	Type: uinteger Erspan source version: v2/v3
erspan_gran_cap	Type: uinteger List of modules that support the granularity set
erspan_granularity	Type: string ERSPAN Type III Granularity

Command Modes

- /exec

show mpls label range

show mpls label range [**__readonly__ TABLE_label_range** *dynamic-min dynamic-max static-min static-max*]

Syntax Description

show	Show running system information
mpls	MPLS configuration commands
label	Label properties
range	Label range
__readonly__	
TABLE_label_range	
dynamic-min	Type: uinteger
dynamic-max	Type: uinteger
static-min	Type: uinteger
static-max	Type: uinteger

Command Modes

- /exec

show mpls label statistics

show mpls label statistics *label* [**__readonly__ TABLE_label_stats** *label packets bytes*]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
label	Show a specific label statistics
statistics	Statistics for the label
label	Type: integer min: 0 max: 524286 Label
__readonly__	
TABLE_label_stats	
label	Type: uinteger Label value
packets	Type: uinteger No. of packets
bytes	Type: uinteger No. of bytes

Command Modes

- /exec

show mpls switching

show mpls switching [**labels** *label* [*max-label*]| **interface** *intf*| {*ip-addr*| *ipv4-prefix*} [**vrf** *vrf-name*]| *ipv6-prefix* [**vrf** *vrf-name*]| **traffic-eng tunnels [cbts]** [*tunnel-id*]| **traffic-eng lsp ipv4** [*ingress-addr tunnel-id*]| **aggregate** [**ipv4**| **ipv6**] [**vrf** *vrf-name*]| **fec** {**te_if**| **ipv4_te_lsp**| **ipv6_te_lsp**| **ipv4_prefix** [**vrf** *vrf-name*]| **ipv6_prefix** [**vrf** *vrf-name*]| **deagg** [**vrf** *vrf-name*]}| **summary**] **[detail] [private]** [**vrf** *vrf-name*] [**__readonly__ TABLE_vrf** *vrf_name in_label out_label ipv4_prefix ipv6_prefix tunnel_v4_mid_source tunnel_v6_mid_source tunnel_id ext_v4_tunnel_id ext_v6_tunnel_id tunnel_instance deagg_vrf deagg_af tunnel_head out_interface ipv4_next_hop ipv6_next_hop nhlfe_p2p_flag nhlfe_frr_status nhlfe_stale_flag in_packets in_bytes out_packets out_bytes tunnel_v4_mid_dest tunnel_v6_mid_dest ipv4_next_hop ipv6_next_hop*]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
traffic-eng	Show traffic-engineering related entries
ip-addr	Type: ipaddr Match destination address
ipv4-prefix	Type: ipprefix Specify an IP prefix/mask
ipv6-prefix	Type: ipv6prefix Specify an IPv6 prefix/mask
fec	Show FEC information in the ULIB
private	Show more detailed information in the ULIB
labels	Show a specific label-related information
label	Type: integer min: 0 max: 524286 Low label value
max-label	Type: integer min: 0 max: 524286 High label value
interface	Match outgoing interface
tunnels	Show TE head-end information

cbts	Show TE head-end CBTS information
lsp	Show TE mid-point information
aggregate	Show aggregate-related information
intf	Type: interface Specify outgoing interface
ingress-addr	Type: ipaddr Match TE ingress address
summary	Summarized information
detail	Detailed information
te_if	TE tunnel head-end
ipv4_te_lsp	TE IPv4 LSP midpoint
ipv6_te_lsp	TE IPv6 LSP midpoint
ipv4_prefix	IPv4 prefix
ipv6_prefix	IPv6 prefix
ipv4	Display IPv4 information
ipv6	Display IPv6 information
deagg	De-aggregation
tunnel-id	Type: integer min: 0 max: 65535 LSP Tunnel ID
vrf	Display per-VRF information
vrf-name	Type: vrf VRF name (Max Size 32)
__readonly__	
TABLE_vrf	
vrf_name	Type: string
in_label	Type: uinteger
out_label	Type: uinteger

ipv4_prefix	Type: ipprefix
ipv6_prefix	Type: ipv6prefix
tunnel_v4_mid_source	Type: ipaddr
tunnel_v6_mid_source	Type: ipv6addr
tunnel_v4_mid_dest	Type: ipaddr
tunnel_v6_mid_dest	Type: ipv6addr
tunnel_id	Type: uinteger
ext_v4_tunnel_id	Type: ipaddr
ext_v6_tunnel_id	Type: ipv6addr
tunnel_instance	Type: uinteger
tunnel_head	Type: string
deagg_vrf	Type: string
deagg_af	Type: string
out_interface	Type: string
ipv4_next_hop	Type: ipaddr
ipv6_next_hop	Type: ipv6addr
nhlfe_frr_status	Type: string
nhlfe_stale_flag	Type: string
nhlfe_p2p_flag	Type: string
in_packets	Type: uinteger
in_bytes	Type: uinteger
out_packets	Type: uinteger
out_bytes	Type: uinteger

Command Modes

- /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 fec-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__	
TABLE_client	
pib-name	Type: string Name of the client(pib)
pib-index	Type: uinteger PIB Index
pib-uuid	Type: uinteger PIB UUID
pib-sap	Type: uinteger MTS SAP for the pib
stale-time	Type: uinteger Stale time
pib-flag	Type: uinteger Flags set by the pib
stale-due	Type: string Stale timer due in
reg-msg	Type: uinteger Number of Registration Message
conv-msg	Type: uinteger Number of Converge Message

inv-conv	Type: uinteger Number of Invalid Convergence message
fec-msg	Type: uinteger Number of FEC messages
fec-add	Type: uinteger Number of FEC Add messages
fec-del	Type: uinteger Number of FEC delete messages
last-xid	Type: uinteger Last XID
fec-ack	Type: uinteger Number of FEC Ack messages sent

Command Modes

- /exec

show 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	Display vdc omf route
vlan	Show information for a vlan
omf	Show catch-all entry consisting of mroute ports
flood	Display vlan flood route
ftag	Show ftag number
source	Show (s, g) source IP address
group	Show group address
hex	Display switch-ids in hex
vlanid	Type: uinteger min: 1 max: 4096 Vlan value
ftag-id	Type: uinteger min: 1 max: 1024 ftag id
groupaddr	Type: ipaddr Group address
v6groupaddr	Type: ipv6addr IPv6 Group address

macgroupaddr	Type: string MAC Group address
srcaddr	Type: ipaddr Source address
v6srcaddr	Type: ipv6addr IPv6 source address
macsrcaddr	Type: string MAC source address
resolved	Resolve switchid nexthops into the underlying interfaces
__readonly__	Read Only
hex2	Type: bool
TABLE_gr	
vlan_id	Type: uinteger min: 1 max: 4096 VLAN
rt-uptime	Type: duration Time route was created
num_nh	Type: uinteger Number of next-hops
owners	Type: uinteger Owners
v4src	Type: ipaddr IPv4 Multicast traffic source
v4grp	Type: ipaddr IPv4 Multicast Group address
v6src	Type: ipv6addr IPv6 Multicast traffic source
v6grp	Type: ipv6addr IPv6 Multicast Group address

macsrc	Type: string MAC Multicast traffic source
macgrp	Type: string MAC Multicast Group address
ftag	Type: uinteger min: 1 max: 1024 ftag id
omf	Type: bool Is OMF route
flood	Type: bool Is flood to vlan route
TABLE_nh	
nh_if	Type: interface The next hop interface
nh_sw	Type: uinteger min: 1 max: 4096 The next hop switch id
owner	Type: uinteger Owner
flags	Type: uinteger flags
nh-uptime	Type: duration Time nexthop was created
rt_type	Type: uinteger Route type
stale	Type: bool Is stale
exclude	Type: bool exclude from post routing replication
svi	Type: bool SVI interface

done	Type: uinteger Done displaying route data
start	Type: bool Print header

Command Modes

- /exec

show mroute flood vlan

show {**l2**| **fabricpath**} **mroute flood vlan** *vlan_id* [**__readonly__** *vdc_id if_count* **TABLE_if** *if_member*]

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
mroute	Show multicast route database
flood	Display vlan flood route
vlan	Vlan
vlan_id	Type: integer min: 1 max: 4094 Enter Vlan id
__readonly__	
vdc_id	Type: integer VDC Id
if_count	Type: integer Number of Interfaces
TABLE_if	
if_member	Type: interface Interface

Command Modes

- /exec

show mroute summary

show {**l2**| **fabricpath**} **mroute summary [detail]** [**__readonly__** *total star_g s_g s_g_no_star_g flood omf* **TABLE_vlan** *vlan_id vlan_flood vlan_omf vlan_star_g vlan_s_g vlan_s_g_no_star vlan_total*]

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
mroute	Show multicast route database
summary	Show multicast route database summary
detail	Show per vlan detail
__readonly__	Read Only
total	Type: uinteger Total number of multicast routes
star_g	Type: uinteger Total number of multicast (*, g) routes
s_g	Type: uinteger Total number of multicast (s, g) routes
s_g_no_star_g	Type: uinteger Number of multicast (s, g) route with no corresponding (*, g)
flood	Type: uinteger Total number of flood-to-vlan routes
omf	Type: uinteger Total number of omf routes
TABLE_vlan	
vlan_id	Type: uinteger VLAN ID for summary info
vlan_flood	Type: uinteger flood routes per vlan

vlan_omf	Type: uinteger OMF routes per vlan
vlan_star_g	Type: uinteger (*,G) routes per vlan
vlan_s_g	Type: uinteger (S,G) routes per VLAN
vlan_s_g_no_star	Type: uinteger (S,G) routes w/o (*,G) per VLAN
vlan_total	Type: uinteger Total multicast routes in VLAN

Command Modes

- /exec

show 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
ftag-id	Type: uinteger min: 1 max: 1024 ftag id
__readonly__	Read Only
TABLE_topo	
id	Type: string topo id
topo_config	Type: uinteger program ftag star route
TABLE_ftag	
ftag	Type: uinteger min: 1 max: 1024 ftag
topo_id	Type: string topo id
config	Type: uinteger ftag config

Command Modes

- /exec

show 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	Show topo instance
ftag	Show ftag number
hex	Display switch-ids in hex
topo-id	Type: uinteger min: 0 max: 64 topo id
ftag-id	Type: uinteger min: 1 max: 1024 ftag id
__readonly__	Read Only
hex2	Type: bool
TABLE_swid	
sw_id	Type: uinteger min: 1 max: 4096 switch id
topo_id	Type: uinteger min: 0 max: 64 topo id

ftag	Type: uinteger min: 1 max: 1024 ftag id
rt-uptime	Type: duration Time route was created
num_nh	Type: uinteger Number of next-hops
owners	Type: uinteger Owners
TABLE_nh	
preferred	Type: bool Is preferred interface
nh_if	Type: interface The next hop interface
nh_sw	Type: uinteger min: 1 max: 4096 The next hop switch id
owner	Type: uinteger Owner
flags	Type: uinteger flags
rt_type	Type: uinteger Route type
nh-uptime	Type: duration Time nexthop was created
distance	Type: uinteger admin distance
stale	Type: bool Is stale
start	Type: bool
done	Type: uinteger

Command Modes

- /exec

show mvpn bgp

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 *Not available in this release.*
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	Source address of MVPN neighbor
src-addr	Type: ipaddr Source Address
__readonly__	
TABLE_entry	
bgp_rd	Type: string
mdt_src	Type: ipaddr
mdt_grp	Type: ipaddr
local	Type: string

Command Modes

- /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 *Not available in this release.*
mdt	Display MDT information
encap	Display MDT Encap table
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
out_context	Type: string
TABLE_encap	
encap_index	Type: uinteger
mdt_grp	Type: ipaddr
mdt_src	Type: ipaddr
mdt_src_if	Type: interface

Command Modes

- /exec

show mvpn mdt route

show mvpn mdt route [detail] [**__readonly__ TABLE_vrf** *out_context* **TABLE_mroute** *src_addr grp_addr ref_count*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information *Not available in this release.*
mdt	Display MDT information
route	Display MDT route information
detail	Display detailed information
__readonly__	
TABLE_vrf	
out_context	Type: string
TABLE_mroute	
src_addr	Type: ipaddr
grp_addr	Type: ipaddr
ref_count	Type: uinteger

Command Modes

- /exec

show mvpn snmp mib genericTable

show mvpn snmp mib genericTable [*mplsVpnVrfName-in*] [**__readonly__ TABLE_ciscoMvpnGenericTable** *mplsVpnVrfName-out ciscoMvpnGenOperStatusChange ciscoMvpnGenOperChangeTime ciscoMvpnGenAssociatedInterfaces ciscoMvpnGenRowStatus*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
genericTable	Show MVPN Generic Table
mplsVpnVrfName-in	Type: vrf mplsVpnVrfName
__readonly__	
TABLE_ciscoMvpnGenericTable	
mplsVpnVrfName-out	Type: string mib table index mplsVpnVrfName
ciscoMvpnGenOperStatusChange	Type: integer mib object ciscoMvpnGenOperStatusChange
ciscoMvpnGenOperChangeTime	Type: duration mib object ciscoMvpnGenOperChangeTime
ciscoMvpnGenAssociatedInterfaces	Type: uinteger mib object ciscoMvpnGenAssociatedInterfaces
ciscoMvpnGenRowStatus	Type: integer mib object ciscoMvpnGenRowStatus

Command Modes

- /exec

show mvpn snmp mib mvpnBgpMdtUpdateTable

show mvpn snmp mib mvpnBgpMdtUpdateTable [*ciscoMvpnBgpMdtUpdGrpAddrType-in ciscoMvpnBgpMdtUpdateGroup-in ciscoMvpnBgpMdtUpdSrcAddrType-in ciscoMvpnBgpMdtUpdateSource-in*] [**__readonly__ TABLE_ciscoMvpnBgpMdtUpdateTable** *ciscoMvpnBgpMdtUpdGrpAddrType-out ciscoMvpnBgpMdtUpdateGroup-out ciscoMvpnBgpMdtUpdateRd ciscoMvpnBgpMdtUpdSrcAddrType-out ciscoMvpnBgpMdtUpdateSource-out ciscoMvpnBgpMdtUpdOrigAddrType ciscoMvpnBgpMdtUpdateOriginator ciscoMvpnBgpMdtUpdNhAddrType ciscoMvpnBgpMdtUpdateNexthop*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnBgpMdtUpdateTable	show mib table mvpnBgpMdtUpdateTable
ciscoMvpnBgpMdtUpdGrpAddrType-in	Type: integer Data MDT Group Address Type
ciscoMvpnBgpMdtUpdateGroup-in	Type: ipaddr Data MDT group address in the MDT join TLV
ciscoMvpnBgpMdtUpdSrcAddrType-in	Type: integer MDT mulitcast routing enty source address type
ciscoMvpnBgpMdtUpdateSource-in	Type: ipaddr Souce addres for the MDT mulitcast routing enty created following the recepit of MDT join TLV
__readonly__	
TABLE_ciscoMvpnBgpMdtUpdateTable	
ciscoMvpnBgpMdtUpdGrpAddrType-out	Type: integer mib table index ciscoMvpnBgpMdtUpdGrpAddrType
ciscoMvpnBgpMdtUpdateGroup-out	Type: ipaddr mib table index ciscoMvpnBgpMdtUpdateGroup
ciscoMvpnBgpMdtUpdateRd	Type: string mib object ciscoMvpnBgpMdtUpdateRd

ciscoMvpnBgpMdtUpdSrcAddrType-out	Type: integer mib table index ciscoMvpnBgpMdtUpdSrcAddrType
ciscoMvpnBgpMdtUpdateSource-out	Type: ipaddr mib table index ciscoMvpnBgpMdtUpdateSource
ciscoMvpnBgpMdtUpdOrigAddrType	Type: integer mib object ciscoMvpnBgpMdtUpdOrigAddrType
ciscoMvpnBgpMdtUpdateOriginator	Type: ipaddr mib object ciscoMvpnBgpMdtUpdateOriginator
ciscoMvpnBgpMdtUpdNhAddrType	Type: integer mib object ciscoMvpnBgpMdtUpdNhAddrType
ciscoMvpnBgpMdtUpdateNexthop	Type: ipaddr mib object ciscoMvpnBgpMdtUpdateNexthop

Command Modes

- /exec

show mvpn snmp mib mvpnMdtDataTable

show mvpn snmp mib mvpnMdtDataTable [*mplsVpnVrfName-in*] [**__readonly__ TABLE_ciscoMvpnMdtDataTable** *mplsVpnVrfName-out ciscoMvpnMdtDataRangeAddrType ciscoMvpnMdtDataRangeAddress ciscoMvpnMdtDataWildcardType ciscoMvpnMdtDataWildcardBits ciscoMvpnMdtDataThreshold ciscoMvpnMdtDataRowStatus*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDataTable	show mib table mvpnMdtDataTable
mplsVpnVrfName-in	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
__readonly__	
TABLE_ciscoMvpnMdtDataTable	
mplsVpnVrfName-out	Type: string mib table index mplsVpnVrfName
ciscoMvpnMdtDataRangeAddrType	Type: integer mib object ciscoMvpnMdtDefaultAddrType
ciscoMvpnMdtDataRangeAddress	Type: ipaddr mib object ciscoMvpnMdtDataRangeAddress
ciscoMvpnMdtDataWildcardType	Type: integer mib object ciscoMvpnMdtDataWildcardType
ciscoMvpnMdtDataWildcardBits	Type: ipaddr mib object ciscoMvpnMdtDataWildcardBits
ciscoMvpnMdtDataThreshold	Type: integer mib object ciscoMvpnMdtDataThreshold

ciscoMvpnMdtDataRowStatus	Type: integer mib object ciscoMvpnMdtDataRowStatus

Command Modes

- /exec

show mvpn snmp mib mvpnMdtDefaultTable

show mvpn snmp mib mvpnMdtDefaultTable [*mplsVpnVrfName-in*] [**__readonly__ TABLE_ciscoMvpnMdtDefaultTable** *mplsVpnVrfName-out ciscoMvpnMdtDefaultAddrType ciscoMvpnMdtDefaultAddress ciscoMvpnMdtEncapsType ciscoMvpnMdtDefaultRowStatus*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDefaultTable	show mib table ciscoMvpnMdtDefaultTable
mplsVpnVrfName-in	Type: vrf mplsVpnVrfName
__readonly__	
TABLE_ciscoMvpnMdtDefaultTable	
mplsVpnVrfName-out	Type: string mib table index mplsVpnVrfName
ciscoMvpnMdtDefaultAddrType	Type: integer mib object ciscoMvpnMdtDefaultAddrType
ciscoMvpnMdtDefaultAddress	Type: ipaddr mib object ciscoMvpnMdtDefaultAddress
ciscoMvpnMdtEncapsType	Type: integer mib object ciscoMvpnMdtEncapsType
ciscoMvpnMdtDefaultRowStatus	Type: integer mib object ciscoMvpnMdtDefaultRowStatus

Command Modes

- /exec

show mvpn snmp mib mvpnMdtJnRcvTable

show mvpn snmp mib mvpnMdtJnRcvTable [*mplsVpnVrfName-in ciscoMvpnMdtJnRcvGrpAddrType-in ciscoMvpnMdtJnRcvGroup-in ciscoMvpnMdtJnRcvSrcAddrType-in ciscoMvpnMdtJnRcvSource-in*] [**__readonly__ TABLE_ciscoMvpnMdtJnRcvTable** *mplsVpnVrfName-out ciscoMvpnMdtJnRcvGrpAddrType-out ciscoMvpnMdtJnRcvGroup-out ciscoMvpnMdtJnRcvSrcAddrType-out ciscoMvpnMdtJnRcvSource-out ciscoMvpnMdtJnRcvUpTime ciscoMvpnMdtJnRcvExpTime*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnRcvTable	show mib table ciscoMvpnMdtJnRcvTable
mplsVpnVrfName-in	Type: string pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
ciscoMvpnMdtJnRcvGrpAddrType-in	Type: integer Data MDT group address type
ciscoMvpnMdtJnRcvGroup-in	Type: ipaddr Data MDT group address in the MDT join TLV
ciscoMvpnMdtJnRcvSrcAddrType-in	Type: integer Source address type
ciscoMvpnMdtJnRcvSource-in	Type: ipaddr Souce addres for the MDT mulitcast routing enty created following the recepit of MDT join TLV
__readonly__	
TABLE_ciscoMvpnMdtJnRcvTable	
mplsVpnVrfName-out	Type: string mib table index mplsVpnVrfName

ciscoMvpnMdtJnRcvGrpAddrType-out	Type: integer mib table index ciscoMvpnMdtJnRcvGrpAddrType
ciscoMvpnMdtJnRcvGroup-out	Type: ipaddr mib table index ciscoMvpnMdtJnRcvGroup
ciscoMvpnMdtJnRcvSrcAddrType-out	Type: integer mib table index ciscoMvpnMdtJnRcvSrcAddrType
ciscoMvpnMdtJnRcvSource-out	Type: ipaddr mib table index ciscoMvpnMdtJnRcvSource
ciscoMvpnMdtJnRcvUpTime	Type: duration mib object ciscoMvpnMdtJnRcvUpTime
ciscoMvpnMdtJnRcvExpTime	Type: duration mib object ciscoMvpnMdtJnRcvExpTime

Command Modes

- /exec

show mvpn snmp mib mvpnMdtJnSendTable

show mvpn snmp mib mvpnMdtJnSendTable [*mplsVpnVrfName-in ciscoMvpnMdtJnSendGrpAddrType-in ciscoMvpnMdtJnSendGroup-in ciscoMvpnMdtJnSendSrcAddrType-in ciscoMvpnMdtJnSendSource-in*] [**__readonly__ TABLE_ciscoMvpnMdtJnSendTable** *mplsVpnVrfName-out ciscoMvpnMdtJnSendGrpAddrType-out ciscoMvpnMdtJnSendGroup-out ciscoMvpnMdtJnSendSrcAddrType-out ciscoMvpnMdtJnSendSource-out ciscoMvpnMdtJnSendMdtGroup ciscoMvpnMdtJnSendMdtRefCt*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnSendTable	show mib table ciscoMvpnMdtJnSendTable
mplsVpnVrfName-in	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
ciscoMvpnMdtJnSendGrpAddrType-in	Type: integer Data MDT group address type
ciscoMvpnMdtJnSendGroup-in	Type: ipaddr Data MDT group address in the MDT join TLV
ciscoMvpnMdtJnSendSrcAddrType-in	Type: integer Source address type
ciscoMvpnMdtJnSendSource-in	Type: ipaddr Souce addres for the MDT mulitcast routing enty created following the recepit of MDT join TLV
__readonly__	
TABLE_ciscoMvpnMdtJnSendTable	
mplsVpnVrfName-out	Type: string mib table index mplsVpnVrfName

ciscoMvpnMdtJnSendGrpAddrType-out	Type: integer mib table index ciscoMvpnMdtJnSendGrpAddrType
ciscoMvpnMdtJnSendGroup-out	Type: ipaddr mib table index ciscoMvpnMdtJnSendGroup
ciscoMvpnMdtJnSendSrcAddrType-out	Type: integer mib table index ciscoMvpnMdtJnSendSrcAddrType
ciscoMvpnMdtJnSendSource-out	Type: ipaddr mib table index ciscoMvpnMdtJnSendSource
ciscoMvpnMdtJnSendMdtGroup	Type: ipaddr mib object ciscoMvpnMdtJnSendMdtGroup
ciscoMvpnMdtJnSendMdtRefCt	Type: uinteger mib object ciscoMvpnMdtJnSendMdtRefCt

Command Modes

- /exec

show mvpn snmp mib mvpnMrouteMdtTable

show mvpn snmp mib mvpnMrouteMdtTable [*mplsVpnVrfName-in ciscoMvpnMrouteMvrfGrpAddrType-in ciscoMvpnMrouteMvrfGroup-in ciscoMvpnMrouteMvrfSrcAddrType-in ciscoMvpnMrouteMvrfSource-in ciscoMvpnMrouteUpDownStreamInfo-in*] [**__readonly__ TABLE_ciscoMvpnMrouteMdtTable** *mplsVpnVrfName-out ciscoMvpnMrouteMvrfGrpAddrType-out ciscoMvpnMrouteMvrfGroup-out ciscoMvpnMrouteMvrfSrcAddrType-out ciscoMvpnMrouteMvrfSource-out ciscoMvpnMrouteUpDownStreamInfo-out ciscoMvpnMrouteMdtGrpAddrType ciscoMvpnMrouteMdtGroup ciscoMvpnMrouteMdtType*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMrouteMdtTable	show mib table mvpnMrouteMdtTable
mplsVpnVrfName-in	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
ciscoMvpnMrouteMvrfGrpAddrType-in	Type: integer Group address type of multicast routing entry
ciscoMvpnMrouteMvrfGroup-in	Type: ipaddr Group address of multicast routing entry
ciscoMvpnMrouteMvrfSrcAddrType-in	Type: integer Source address type
ciscoMvpnMrouteMvrfSource-in	Type: ipaddr Source address of multicast routing entry
ciscoMvpnMrouteUpDownStreamInfo-in	Type: integer if PE is Upstream or downstream router for the multcast routing entry
__readonly__	

TABLE_ciscoMvpnMrouteMdtTable	
mplsVpnVrfName-out	Type: string mib table index mplsVpnVrfName
ciscoMvpnMrouteMvrfGrpAddrType-out	Type: integer mib table index ciscoMvpnMrouteMvrfGrpAddrType
ciscoMvpnMrouteMvrfGroup-out	Type: ipaddr mib table index ciscoMvpnMrouteMvrfGroup
ciscoMvpnMrouteMvrfSrcAddrType-out	Type: integer mib table index ciscoMvpnMrouteMvrfSrcAddrType
ciscoMvpnMrouteMvrfSource-out	Type: ipaddr mib table index ciscoMvpnMrouteMvrfSource
ciscoMvpnMrouteUpDownStreamInfo-out	Type: integer mib table index ciscoMvpnMrouteUpDownStreamInfo
ciscoMvpnMrouteMdtGrpAddrType	Type: integer mib object ciscoMvpnMrouteMdtGrpAddrType
ciscoMvpnMrouteMdtGroup	Type: ipaddr mib object ciscoMvpnMrouteMdtGroup
ciscoMvpnMrouteMdtType	Type: integer mib object ciscoMvpnMrouteMdtType

Command Modes

- /exec

show mvpn snmp mib mvpnMvrfNumber

show mvpn snmp mib mvpnMvrfNumber [**__readonly__** *ciscoMvpnMvrfNumber*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables/scalars
mvpnMvrfNumber	Show number of MVRFs
__readonly__	Read Only
ciscoMvpnMvrfNumber	Type: integer mib object ciscoMvpnMvrfNumber

Command Modes

- /exec

show mvpn snmp mib mvpnNotificationEnable

show mvpn snmp mib mvpnNotificationEnable [**__readonly__** *ciscoMvpnNotificationEnable*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables/scalars
mvpnNotificationEnable	Show value of ciscoMvpnNotificationEnable
__readonly__	Read Only
ciscoMvpnNotificationEnable	Type: integer mib object ciscoMvpnNotificationEnable

Command Modes

- /exec

show mvpn snmp mib mvpnTunnelTable

show mvpn snmp mib mvpnTunnelTable [*ifIndex-in*] [**__readonly__ TABLE_ciscoMvpnTunnelTable** *ifIndex-out ciscoMvpnTunnelName ciscoMvpnTunnelMvrf*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnTunnelTable	show mib table mvpnTunnelTable
ifIndex-in	Type: integer Interface Index
__readonly__	
TABLE_ciscoMvpnTunnelTable	
ifIndex-out	Type: integer mib table index ifIndex
ciscoMvpnTunnelName	Type: string mib object ciscoMvpnTunnelName
ciscoMvpnTunnelMvrf	Type: string mib object ciscoMvpnTunnelMvrf

Command Modes

- /exec

N Show Commands

- show ntp access-groups, page 2184
- show ntp authentication-keys, page 2185
- show ntp authentication-status, page 2186
- show ntp logging-status, page 2187
- show ntp peer-status, page 2188
- show ntp peers, page 2190
- show ntp rts-update, page 2191
- show ntp session status, page 2192
- show ntp source-interface, page 2193
- show ntp source, page 2194
- show ntp statistics, page 2195
- show ntp status, page 2200
- show ntp trusted-keys, page 2201
- show nve interface, page 2202
- show nve peers, page 2203
- show nve vni, page 2204
- show nve vxlan-params, page 2205
- show nxapi, page 2206

show ntp access-groups

show ntp access-groups [**__readonly__** [**TABLE_accessgroups** *accesslist* [*type*]]]

Syntax Description

show	Show running system information
ntp	Show NTP information
access-groups	Display NTP access groups
__readonly__	
TABLE_accessgroups	accessgroups
accesslist	Type: string accesslist
type	Type: string type

Command Modes

- /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__	
TABLE_authkeys	authentication keys
Authkey	Type: string authentication key
MD5String	Type: string password

Command Modes

- /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__	
authentication	Type: string authentication enabled/disabled

Command Modes

- /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__	
loggingstatus	Type: string logging enabled/disabled

Command Modes

- /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
__readonly__	
totalpeers	Type: string totalpeers
TABLE_peersstatus	peersstatus
syncmode	Type: string peermode
remote	Type: string remote addr
local	Type: string local addr
st	Type: string stratum
poll	Type: string ntp poll
reach	Type: string reach
delay	Type: string delay
vrf	Type: string vrf name

Command Modes

- /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__	
TABLE_peers	peers
PeerIPAddress	Type: string peer Ip addr
serv_peer	Type: string server or peer
conf_flag	Type: string configured or dynamic

Command Modes

- /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__	
rtsupdate	Type: string rts update enabled/disabled

Command Modes

- /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
__readonly__	
session_status	Type: string last session status

Command Modes

- /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__	
sourceinterface	Type: string source interface

Command Modes

- /exec

show ntp source

show ntp source [**__readonly__** [*sourceip*]]

Syntax Description

show	Show running system information
ntp	Show NTP information
source	Source IP address configured
__readonly__	
sourceip	Type: string source ip addr

Command Modes

- /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 iopacketssent iopacketsnotsent iointerruptshandled ioreceivedbyint*] [*localsystemuptime localtimesincereset localoldversionpackets localnewversionpackets localunknownversionnumber localbadpacketformat localpacketsprocessed localbadauthentication* [*localpacketsrejected*]] [*memtimesincereset memtotalpeermemory memfreepeermemory memcallstofindpeer memnewpeerallocations mempeerdemobilizations memhashtablecounts*] [*peeripremotehost peeriplocalinterface peeriptimelastreceived peeriptimeuntilnextsend peeripreachabilitychange peerippacketssent peerippacketsreceived peeripbadauthentication peeripbogusorigin peeripduplicate peeripbaddispersion peeripbadreferencetime peeripcandidateorder*] [*peernameremotehost peernamelocalinterface peernametimelastreceived peernametimeuntilnextsend peernamereachabilitychange peernamepacketssent 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	Show the input-output statistics.
local	Show the counters maintained by the local NTP.
memory	Show the statistics counters related to memory code.
peer	Show the per-peer statistics counter of a peer.
ipaddr	Peer's IP address
ipv4_0	Type: ipaddr
ipv6_1	Type: ipv6addr
name	Peer's Name
s0	Type: string
__readonly__	
iotimesincereset	Type: string time since reset
ioreceivebuffers	Type: string receive buffers

iofreereceivebuffers	Type: string free receive buffers
iousedreceivebuffers	Type: string used receive buffers
iolowwaterrefills	Type: string low water refills
iodroppedpackets	Type: string dropped packets
ioignoredpackets	Type: string ignored packets
ioreceivedpackets	Type: string received packets
iopacketssent	Type: string packets sent
iopacketsnotsent	Type: string packets not sent
iointerruptshandled	Type: string interrupts handled
ioreceivedbyint	Type: string received by int
localsystemuptime	Type: string system up time
localtimesincereset	Type: string time since reset
localoldversionpackets	Type: string old version packets
localnewversionpackets	Type: string new version packets
localunknownversionnumber	Type: string unknown version number

localbadpacketformat	Type: string bad packet format
localpacketsprocessed	Type: string packets processed
localbadauthentication	Type: string bad authentication
localpacketsrejected	Type: string packets rejected
memtimesincereset	Type: string time since reset
memtotalpeermemory	Type: string total peer memory
memfreepeermemory	Type: string free peer memory
memcallstofindpeer	Type: string calls to find peer
memnewpeerallocations	Type: string new peer allocations
mempeerdemobilizations	Type: string peer demobilizations
memhashtablecounts	Type: string hash table counts
peeripremotehost	Type: string peeripremotehost
peeriplocalinterface	Type: string peeriplocalinterface
peeriptimelastreceived	Type: string peeriptimelastreceived
peeriptimeuntilnextsend	Type: string peeriptimeuntilnextsend

peeripreachabilitychange	Type: string peeripreachabilitychange
peerippacketssent	Type: string peerippacketssent
peerippacketsreceived	Type: string peerippacketsreceived
peeripbadauthentication	Type: string peeripbadauthentication
peeripbogusorigin	Type: string peeripbogusorigin
peeripduplicate	Type: string peeripduplicate
peeripbaddispersion	Type: string peeripbaddispersion
peeripbadreferencetime	Type: string peeripbadreferencetime
peeripcandidateorder	Type: string peeripcandidateorder
peernameremotehost	Type: string peernameremotehost
peernamelocalinterface	Type: string peernamelocalinterface
peernametimelastreceived	Type: string peernametimelastreceived
peernametimeuntilnextsend	Type: string peernametimeuntilnextsend
peernamereachabilitychange	Type: string peernamereachabilitychange
peernamepacketssent	Type: string peernamepacketssent

peernamepacketsreceived	Type: string peernamepacketsreceived
peernamebadauthentication	Type: string peernamebadauthentication
peernamebogusorigin	Type: string peernamebogusorigin
peernameduplicate	Type: string peernameduplicate
peernamebaddispersion	Type: string peernamebaddispersion
peernamebadreferencetime	Type: string peernamebadreferencetime
peernamecandidateorder	Type: string peernamecandidateorder

Command Modes

- /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
__readonly__	
distribution	Type: string distribution enabled/disabled
operational_state	Type: string last operation status

Command Modes

- /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__	
TABLE_trustkeys	trusted keys
key	Type: string trusted key

Command Modes

- /exec

show nve interface

show nve interface [*nve-if* **[detail]**] [**__readonly__ TABLE_nve_if** *if-name if-state encap-type source-if primary-ip secondary-ip* [**TABLE_nveif_vni** *vni mcast vni-state*]]

Syntax Description

show	Display NVE information
nve	Configure NVE information
interface	Interface
nve-if	Type: interface NVE interface
detail	Detailed information
__readonly__	
TABLE_nve_if	
TABLE_nveif_vni	
if-name	Type: interface
if-state	Type: string
encap-type	Type: string
source-if	Type: interface
primary-ip	Type: ipaddr
secondary-ip	Type: ipaddr
vni	Type: uinteger
mcast	Type: ipaddr
vni-state	Type: string

Command Modes

- /exec

show nve peers

show nve peers [[**interface** *nve-if*] **[detail]**] [**__readonly__ TABLE_nve_peers** *if-name peer-ip peer-state*]

Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	Show peers
interface	Interface
nve-if	Type: interface NVE interface
detail	Detailed information
__readonly__	
TABLE_nve_peers	
if-name	Type: interface
peer-ip	Type: ipaddr
peer-state	Type: string

Command Modes

- /exec

show nve vni

show nve vni [[*vni-id* **[detail]**]| **interface** *nve-if* **[detail]**] [**__readonly__ TABLE_nve_vni** *if-name vni mcast vni-state*]

Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
vni-id	Type: integer Virtual Network Identifier
interface	Interface
nve-if	Type: interface NVE interface
detail	Detailed information
__readonly__	
TABLE_nve_vni	
if-name	Type: interface
vni	Type: uinteger
mcast	Type: ipaddr
vni-state	Type: string

Command Modes

- /exec

show nve vxlan-params

show nve vxlan-params

Syntax Description

show	Display NVE information
nve	Configure NVE information
vxlan-params	VxLAN Parameters

Command Modes

- /exec

show nxapi

show nxapi [**__readonly__ operation_status** *o_status* [**configuration_error** *c_error*] **TABLE_listen_on_port** *l_port*]

Syntax Description

show	Show running system information
nxapi	Show nxapi status
__readonly__	
operation_status	run-time information about nxapi
o_status	Type: string enabled or not
configuration_error	config syntax error
c_error	Type: string confg syntax error
TABLE_listen_on_port	listen on port table
l_port	Type: string listen on port

Command Modes

- /exec

O Show Commands

- show object-group, page 2209
- show onep, page 2211
- show onep cli-extensions applications, page 2213
- show onep error, page 2214
- show onep history, page 2215
- show onep statistics, page 2216
- show onep status, page 2219
- show onep trace, page 2222
- show ospfv3, page 2223
- show ospfv3 border-routers, page 2229
- show ospfv3 database, page 2232
- show ospfv3 database database-summary, page 2236
- show ospfv3 database detail, page 2238
- show ospfv3 ha, page 2245
- show ospfv3 interface, page 2247
- show ospfv3 interface brief, page 2251
- show ospfv3 lsa-content-changed-list, page 2253
- show ospfv3 memory, page 2255
- show ospfv3 neighbors, page 2257
- show ospfv3 neighbors detail, page 2259
- show ospfv3 neighbors summary, page 2263
- show ospfv3 policy statistics, page 2265
- show ospfv3 request-list, page 2267
- show ospfv3 retransmission-list, page 2269

- show ospfv3 route, page 2271
- show ospfv3 route summary, page 2274
- show ospfv3 statistics, page 2277
- show ospfv3 summary-address, page 2282
- show ospfv3 traffic, page 2284
- show ospfv3 virtual-links, page 2288
- show ospfv3 virtual-links brief, page 2294
- show otv mroute, page 2296
- show otv route, page 2298

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
name	Type: string length: 64 object-group name
__readonly__	
group_type	Type: integer Object group type
group_name	Type: string Object group name
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
TABLE_ogroup	
_port_range	Port range **range value: 8** Match only packets in the range of port numbers
port0_num	Type: integer min: 0 max: 65535 Port number
port1_num	Type: integer min: 0 max: 65535 Port number
port2_num	Type: integer min: 0 max: 65535 Port number

net_ip	Type: ipprefix A.B.C.D Network address of object-group member
hostaddr	Type: ipaddr A.B.C.D Host address
mask_ip_addr	Type: ipaddr A.B.C.D IP address
mask_ip_mask	Type: ipaddr A.B.C.D IP address mask
net_ipv6	Type: ipv6prefix IPv6 Network address of object-group member
hostipv6	Type: ipv6addr IPv6 Host address
mask_ipv6_addr	Type: ipv6addr A.B.C.D IP address
mask_ipv6_mask	Type: ipv6addr A.B.C.D IP address mask

Command Modes

- /exec

show onep

show onep session {**all**| *onep-session-id*| **rate-limit**} [**__readonly__** [**TABLE_sessions** *ID Username State ReconnectTimer ConnectTime Appname Error*] [**TABLE_buckets** *Addr Hash Rate Last Current Limit ExtendedLimit MarkCounter Reject Accept*]]

Syntax Description

show	Show running system information
onep	One Platform
session	One Platform session
all	All sessions
onep-session-id	Type: string Specific session name
rate-limit	rate limiting feature info
__readonly__	
TABLE_sessions	all current sessions of onep
ID	Type: string the session handler
Username	Type: string the username
State	Type: string the state
ReconnectTimer	Type: integer the reconnect timer
ConnectTime	Type: string the connect time
Appname	Type: string the application name
Error	Type: string possible error message
TABLE_buckets	all rate limit buckets

Addr	Type: string the remote address
Hash	Type: integer the hash of the remote address
Rate	Type: integer the token fill rate
Last	Type: string the last rate check time
Current	Type: integer current tokens that are accepted to consume
Limit	Type: integer the standard limit on tokens
ExtendedLimit	Type: integer the burst limit on tokens
MarkCounter	Type: integer the burst tokens to consume
Reject	Type: integer stats: rejected TCP connections
Accept	Type: integer stats: accepted TCP connections

show onep cli-extensions applications

show onep cli-extensions applications [**__readonly__** *num_applications* [**TABLE_applications** *app_name app_version config_domain ver_specific*]]

Syntax Description

show	Show running system information
onep	One Platform
cli-extensions	CLI Extensions feature
applications	Onep applications using the CLI Extensions feature
__readonly__	
num_applications	Type: uinteger Number of onep applications
TABLE_applications	Table of onep applications
app_name	Type: string Onep application name
app_version	Type: string Onep application version
config_domain	Type: string Onep config domain
ver_specific	Type: string Onep application version specific

Command Modes

- /exec

show onep error

show onep error [**__readonly__** [**TABLE_onep_errors** *Content*]]

Syntax Description

show	Show running system information
onep	One Platform
error	Error
__readonly__	
TABLE_onep_errors	Errors messages
Content	Type: string error content

Command Modes

- /exec

show onep history

show onep history {**archived**| **all**| **session** {**all**| *onep-session-id*}} [**__readonly__** [**TABLE_history** *Record*]]

Syntax Description

show	Show running system information
onep	One Platform
history	One Platform history trails
archived	One Platform archived session
session	One Platform session
onep-session-id	Type: string Specific session name
all	All sessions
__readonly__	
TABLE_history	a set of history records
Record	Type: string an individual history record

show onep statistics

show onep statistics [**session** {**all**| *onep-session-id*}] [**__readonly__** [**TABLE_stats_global** *SessionTotal ActiveSessions LocalDisconnect RemoteDisconnect ErrorDisconnect TotalDisconnects TotalErrors AuthenticateErr DupAppNameErr MemErr SystemErr TotalConnects RejectedConnects AcceptedConnects UnaffectedConnects FailedConnectionIndex SequenceNumber FailureReason ErrorCode FailureTime RemoteHost*] [**TABLE_stats_sessions** *ID Appname APIIn APIOut BytesIn BytesOut VtyCount Error*]]

Syntax Description

show	Show running system information
onep	One Platform
statistics	statistics
session	One Platform session
all	All sessions
onep-session-id	Type: string Specific session name
__readonly__	
TABLE_stats_global	global session statistics for onep
SessionTotal	Type: integer total onep sessions
ActiveSessions	Type: integer currently active onep sessions
LocalDisconnect	Type: integer onep sessions locally disconnected
RemoteDisconnect	Type: integer onep sessions remotely disconnected
ErrorDisconnect	Type: integer onep sessions errored disconnected
TotalDisconnects	Type: integer total onep disconnected sessions
TotalErrors	Type: integer total onep errors

AuthenticateErr	Type: integer onep authentication errors
DupAppNameErr	Type: integer onep duplicate application name errors
MemErr	Type: integer onep memory errors
SystemErr	Type: integer onep system errors
TotalConnects	Type: integer total number of TCP connection attempts
RejectedConnects	Type: integer number of TCP connections rejected by rate limiting
AcceptedConnects	Type: integer number of TCP connections accepted by rate limiting
UnaffectedConnects	Type: integer number of TCP connections unaffected by rate limiting
FailedConnectionIndex	Type: integer Index of the failed connection
SequenceNumber	Type: integer Sequence number of the failed connection
FailureReason	Type: string Failure reason of the failed connection
ErrorCode	Type: integer Error code of the failed connection
FailureTime	Type: string Failure time of the failed connection
RemoteHost	Type: string Remote host address of the failed connection
TABLE_stats_sessions	all current sessions of onep

ID	Type: string the session handler
Appname	Type: string the application name
APIIn	Type: integer the API in
APIOut	Type: integer the API out
BytesIn	Type: string the Bytes in
BytesOut	Type: string the Bytes out
VtyCount	Type: integer the Vty count
Error	Type: string possible error message

show onep status

show onep status [**__readonly__ operational_status** *o_status* **operational_version** *o_version* [**TABLE_transports** *transport_name status* [*port*] [*access_class*] [*localcert*] [*remotecert*]] **session_max_limit** *s_max_limit* **cpu_interval** *c_interval* **cpu_fall_threshold** *c_fall_threshold* **cpu_rise_threshold** *c_rise_threshold* **history_buffer_on** *h_buffer_on* **history_buffer_purge** *h_buffer_purge* **history_buffer_size** *h_buffer_size* **history_syslog** *h_syslog* [**TABLE_service_sets** *service_set state version*]]

Syntax Description

show	Show running system information
onep	One Platform
status	status
__readonly__	
operational_status	run-time info about onep
o_status	Type: string status of onep
operational_version	run-time version about onep
o_version	Type: string version of onep
TABLE_transports	all transports of onep
transport_name	Type: string the transport name
status	Type: string the transport status
port	Type: integer the transport port
access_class	Type: string the transport access-class
localcert	Type: string the local certificate of transport
remotecert	Type: string the remote certificate of transport

session_max_limit	maximum number of sessions allowed
s_max_limit	Type: string maximum limit
cpu_interval	obsevation interval in seconds
c_interval	Type: string observation interval
cpu_fall_threshold	falling threshold in percentage
c_fall_threshold	Type: string falling threshold
cpu_rise_threshold	rising threshold in percentage
c_rise_threshold	Type: string rising threshold
history_buffer_on	history buffer on
h_buffer_on	Type: string history buffer on
history_buffer_purge	history buffer purge
h_buffer_purge	Type: string purge oldest or newest
history_buffer_size	history buffer size
h_buffer_size	Type: string history buffer size
history_syslog	history syslog
h_syslog	Type: string history syslog
TABLE_service_sets	all registered service sets of onep
service_set	Type: string service set name
state	Type: string service set state

version	Type: string service set version

Command Modes

- /exec

show onep trace

show onep trace [**__readonly__** [**TABLE_onep_traces** *Content*]]

Syntax Description

show	Show running system information
onep	One Platform
trace	Trace
__readonly__	
TABLE_onep_traces	all internal traces
Content	Type: string trace content

Command Modes

- /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_notify_period*] [*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 no_discard_rt_ext no_discard_rt_int* [*bfd_enabled*] [*passive_dflt*] [*name_lookup*] [**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 spf_runs last_spf_run_time* [*rtr_lsa_throt*] [**TABLE_range** *addr masklen state nets advertise* [*cost*]] [*filter_in*] [*filter_out*] *lsa_cnt lsa_crc*]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information

vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_ctx	
ptag	Type: string
instance_number	Type: integer
cname	Type: string
rid	Type: ipaddr
stateful_ha	Type: bool
gr_ha	Type: bool
gr_planned_only	Type: bool
gr_notify_period	Type: duration
gr_grace_period	Type: duration
gr_state	**active value: 0** **inactive value: 1**

gr_last_status	**None value: 0** **Successful value: 1** **Failed (notify period timeout) value: 2** **Failed (grace period timeout) value: 3** **Failed (topology change) value: 4** **Failed (invalid lsid) value: 5**
gr_helper_mode	Type: bool
support_tos0_only	Type: bool
support_opaque_lsa	Type: bool
low_mem_cond	Type: bool
is_abr	Type: bool
is_asbr	Type: bool
max_lsa_non_self_number	Type: uinteger
max_lsa_state	Type: string
max_lsa_warning_only	Type: bool
max_lsa_current_non_self_lsa_number	Type: uinteger
max_lsa_threshold_pct	Type: uinteger
max_lsa_ignore_time	Type: duration
max_lsa_reset_time	Type: duration
max_lsa_ignore_count	Type: uinteger
max_lsa_current_ignore_count	Type: uinteger
max_lsa_ignore_time_left	Type: duration
max_lsa_reset_time_left	Type: duration
max_lsa_permanent_ignore	Type: bool
TABLE_redist	
proto	Type: string

max_lsas	Type: integer
warning	Type: string
threshold	Type: integer
current_count	Type: integer
admin_dist	Type: integer
ref_bw	Type: integer
spf_start_time	Type: duration
spf_hold_time	Type: duration
spf_max_time	Type: duration
lsa_start_time	Type: duration
lsa_hold_time	Type: duration
lsa_max_time	Type: duration
min_lsa_arr_time	Type: duration
lsa_aging_pace	Type: integer
spf_max_paths	Type: integer
max_metric_adver	Type: bool
max_metric_time_left	Type: duration
max_metric_wait_bgp	Type: bool
max_metric_timeout	Type: duration
max_metric_always	Type: bool
max_metric_sum_lsa	Type: integer
max_metric_ext_lsa	Type: integer
asext_lsa_cnt	Type: integer
asext_lsa_crc	Type: hex
area_total	Type: integer
area_normal	Type: integer

area_stub	Type: integer
area_nssa	Type: integer
act_area_total	Type: integer
act_area_normal	Type: integer
act_area_stub	Type: integer
act_area_nssa	Type: integer
bfd_enabled	Type: bool
passive_dflt	Type: bool
name_lookup	Type: bool
no_discard_rt_ext	Type: bool
no_discard_rt_int	Type: bool
TABLE_area	
aname	Type: string
backbone_active	Type: bool
active	Type: bool
age	Type: duration
total_intf	Type: integer
act_intf	Type: integer
passive_intf	Type: integer
loopback_intf	Type: integer
gr_nbr_cnt	Type: integer
stub	Type: bool
stub_def_cost	Type: integer
nssa	Type: bool
no_redist	Type: bool
nssa_trans	Type: bool
no_summary	Type: bool

spf_runs	Type: integer
last_spf_run_time	Type: duration
rtr_lsa_throt	Type: duration
TABLE_range	
addr	Type: ipv6addr
masklen	Type: integer
state	**active value: 0** **passive value: 1**
nets	Type: integer
advertise	**advertise value: 0** **doNotAdvertise value: 1**
cost	Type: integer
filter_in	Type: string
filter_out	Type: string
lsa_cnt	Type: integer
lsa_crc	Type: hex

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
border-routers	Border routers
all_routes	Display all OSPFv3 routes
__readonly__	
TABLE_ctx	

ptag	Type: string
cname	Type: string
TABLE_br	
type	**nopath value: 0** **discard-internal value: 1** **discard-external value: 2** **intra value: 3** **inter value: 4** **type-1 value: 5** **nssa type-1 value: 6** **type-2 value: 7** **nssa type-2 value: 8**
addr	Type: ipaddr
cost	Type: uinteger
asbr	Type: bool
abr	Type: bool
area	Type: string
spf_inst	Type: uinteger
vlink_unresolved	Type: bool
TABLE_br_ubest_nh	
ubest_nh_addr	Type: ipv6addr
ubest_nh_intf	Type: interface
TABLE_br_mbest_nh	
mbest_nh_addr	Type: ipv6addr
mbest_nh_intf	Type: interface

Command Modes

- /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** *advid*| **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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
database	Link-state Database Summary
router	Display router LSAs

network	Display network LSAs
inter-area	Display inter-area LSAs
iprefix	Display Inter-Area-Prefix LSAs
irouter	Display Inter-Area-Router LSAs
nssa-external	Display NSSA-external LSAs
area-unknown	Display area-scope unknown LSAs
external	Display AS-external LSAs
as-unknown	Display as-scope unknown LSAs
grace	Display Grace LSAs
link	Display Link LSAs
link-unknown	Display link-scope unknown LSAs
interface	Type: interface OSPF enabled interface
intra-area-prefix	Display Intra-Area-Prefix LSAs
self-originated	Display only self-originated LSAs
lsid	Type: ipaddr Restrict display by link state ID
adv-router	Restrict display by Advertising router
advid	Type: ipaddr Advertising router ID
adv-router-name	Restrict display by Advertising router name
adv-name	Type: string DNS Name of the Advertising router
area	Display only LSA's in this area
area-id-ip	Type: ipaddr Area Id as an integer or ip address
tag	Restrict display by tag

tag_val	Type: uinteger min: 1 max: 4294967295 32-bit tag value
__readonly__	
TABLE_ctx	
rid	Type: ipaddr
ptag	Type: string
cname	Type: string
TABLE_db3_lsa	
name	Type: string
area	Type: string
id	Type: ipaddr
advrtr	Type: ipaddr
age	Type: uinteger
seqno	Type: hex
corrupt	Type: bool
rtr_num_links	Type: integer
net_num_rtr	Type: integer
prefix	Type: ipv6prefix
inter_rid	Type: ipaddr
link_if	Type: interface

intra_ref_type	**Link-scope unknown value: 0** **Link-Local value: 1** **Grace value: 2** **Area-scope unknown value: 3** **Router value: 4** **Network value: 5** **Inter-Area Prefix value: 6** **Inter-Area Router value: 7** **Group Membership value: 8** **Type-7 AS External value: 9** **Intra-Area Prefix value: 10** **AS-scope unknown value: 11** **Type-5 AS External value: 12**
intra_ref_lsid	Type: ipaddr

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
__readonly__	
TABLE_ctx	

rid	Type: ipaddr
ptag	Type: string
cname	Type: string
TABLE_dbsum	
TABLE_dbsum_area	
area	Type: string
TABLE_dbsum_area_lsa	
area_lsa_name	Type: string
area_lsa_count	Type: integer
area_lsa_total	Type: integer
TABLE_dbsum_all	
TABLE_dbsum_lsa_all	
lsa_name	Type: string
lsa_count	Type: integer
non_self_lsa_total	Type: integer
lsa_total	Type: integer

Command Modes

- /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** *advid*| **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_lsdb** *age maxage wrapping dummy flush_pending type* [*intf*] *id advrtr 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_advrtr*] [**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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name

vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
database	Link-state Database Summary
router	Display router LSAs
network	Display network LSAs
inter-area	Display inter-area LSAs
iprefix	Display Inter-Area-Prefix LSAs
irouter	Display Inter-Area-Router LSAs
nssa-external	Display NSSA-external LSAs
area-unknown	Display area-scope unknown LSAs
external	Display AS-external LSAs
as-unknown	Display as-scope unknown LSAs
grace	Display Grace LSAs
link	Display Link LSAs
link-unknown	Display link-scope unknown LSAs
interface	Type: interface OSPF enabled interface
intra-area-prefix	Display Intra-Area-Prefix LSAs
self-originated	Display only self-originated LSAs
lsid	Type: ipaddr Restrict display by link state ID
adv-router	Restrict display by Advertising router
advid	Type: ipaddr Advertising router ID
adv-router-name	Restrict display by Advertising router name
adv-name	Type: string DNS Name of the Advertising router

area	Display only LSA's in this area
area-id-ip	Type: ipaddr Area Id as an integer or ip address
tag	Restrict display by tag
tag_val	Type: uinteger min: 1 max: 4294967295 32-bit tag value
detail	Display LSA in detail
__readonly__	
TABLE_ctx	
rid	Type: ipaddr
ptag	Type: string
cname	Type: string
TABLE_db3_lsa	
name	Type: string
area	Type: string
TABLE_lsdb	
age	Type: integer
maxage	Type: bool
wrapping	Type: bool
dummy	Type: bool
flush_pending	Type: bool
type	Type: string
intf	Type: interface
id	Type: ipaddr
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex

len	Type: integer
corrupt	Type: bool
rtr_abr	Type: bool
rtr_asbr	Type: bool
rtr_translate	Type: bool
rtr_vlink_end	Type: bool
rtr_options	Type: hex
rtr_num_links	Type: integer
TABLE_rlsa	
rtr_link_type	Type: string
rtr_link_metric	Type: integer
rtr_link_ifid	Type: uinteger
rtr_link_nbr_ifid	Type: uinteger
rtr_link_nbr_rid	Type: ipaddr
net_options	Type: hex
TABLE_nlsa	
net_rtr	Type: ipaddr
ia_prefix	Type: ipv6prefix
ia_prefix_options	Type: hex
ia_prefix_metric	Type: integer
ia_rtr_options	Type: hex
ia_rtr_metric	Type: integer
ia_rtr_rid	Type: ipaddr
asext_prefix	Type: ipv6prefix
asext_options	Type: hex
asext_metric_type2	Type: bool
asext_metric	Type: integer

asext_fwd_addr	Type: ipv6addr
asext_tag	Type: uinteger
asext_ref_lstype	**Link-scope unknown value: 0** **Link-Local value: 1** **Grace value: 2** **Area-scope unknown value: 3** **Router value: 4** **Network value: 5** **Inter-Area Prefix value: 6** **Inter-Area Router value: 7** **Group Membership value: 8** **Type-7 AS External value: 9** **Intra-Area Prefix value: 10** **AS-scope unknown value: 11** **Type-5 AS External value: 12**
asext_ref_lsid	Type: ipaddr
link_priority	Type: integer
link_options	Type: hex
link_laddr	Type: ipv6addr
link_num_prefix	Type: integer
TABLE_linklsa	
link_prefix	Type: ipv6prefix
link_prefix_options	Type: integer
intra_num_prefix	Type: integer

intra_ref_lstype	**Link-scope unknown value: 0** **Link-Local value: 1** **Grace value: 2** **Area-scope unknown value: 3** **Router value: 4** **Network value: 5** **Inter-Area Prefix value: 6** **Inter-Area Router value: 7** **Group Membership value: 8** **Type-7 AS External value: 9** **Intra-Area Prefix value: 10** **AS-scope unknown value: 11** **Type-5 AS External value: 12**
intra_ref_lsid	Type: ipaddr
intra_ref_advrtr	Type: ipaddr
TABLE_iaplsa	
intra_prefix	Type: ipv6prefix
intra_prefix_options	Type: hex
intra_prefix_metric	Type: integer
corrupted_length	Type: bool
tlv_type	Type: integer
tlv_len	Type: integer
tlv_data	Type: integer
tlv_unknown	Type: bool
gr_interval	Type: integer
gr_reason	Type: string

unknown	Type: bool
data_len	Type: integer
data	Type: integer

Command Modes

- /exec

show ospfv3 ha

show [ipv6] ospfv3 [*tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **ha** [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_ctx** *ptag cname stateful pss_restored pss_state gr_enabled gr_grace_period gr_state gr_last_status gr_helper_mode*]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
ha	High Availability status
__readonly__	
TABLE_ctx	
ptag	Type: string

cname	Type: string
stateful	**enabled value: 0** **disabled value: 1**
pss_restored	Type: bool
pss_state	Type: string
gr_enabled	Type: bool
gr_grace_period	Type: duration
gr_state	**Active value: 0** **Inactive value: 1**
gr_last_status	Type: string
gr_helper_mode	Type: bool

Command Modes

- /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* [*bfd_enabled*] *index* [*passive*] [*mpls*] [*transmit_delay*] [*if_priority*] [*dr_rid*] [*dr_addr*] [*bdr_rid*] [*bdr_addr*] [*nbr_total*] [*nbr_flood*] [*nbr_adjs*] [*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*]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
interface	OSPF enabled interface

interface	Type: interface OSPF enabled interface
private	Developer-only statistics
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_intf	
ifname	Type: interface
admin_status	**up value: 0** **down value: 1**
proto_status	**up value: 0** **down value: 1**
addr	Type: ipv6addr
masklen	Type: integer
inst_id	Type: integer
area	Type: string
if_cfg	Type: bool

state_str	**UNKNOWN value: 0** **DOWN value: 1** **LOOPBACK value: 2** **WAITING value: 3** **P2P value: 4** **DROTHER value: 5** **BDR value: 6** **DR value: 7**
type_str	**UNKNOWN value: 0** **LOOPBACK value: 1** **P2P value: 2** **P2MP value: 3** **NBMA value: 4** **BROADCAST value: 5**
cost	Type: integer
bfd_enabled	Type: bool
index	Type: integer
passive	Type: bool
mpls	Type: bool
transmit_delay	Type: integer
if_priority	Type: integer
dr_rid	Type: ipaddr
dr_addr	Type: ipv6addr
bdr_rid	Type: ipaddr
bdr_addr	Type: ipv6addr

nbr_total	Type: integer
nbr_flood	Type: integer
nbr_adjs	Type: integer
gr_nbr	Type: integer
hello_interval	Type: integer
dead_interval	Type: integer
wait_interval	Type: integer
rxmt_interval	Type: integer
hello_timer	Type: duration
wait_timer	Type: duration
pacing_timer	Type: duration
lsu_timer	Type: duration
lsack_timer	Type: duration
netlsa_throt_timer	Type: duration
link_lsa_cnt	Type: integer
link_lsa_crc	Type: hex

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPFv3 interfaces
__readonly__	
TABLE_ctx	
ptag	Type: string

cname	Type: string
intf_count	Type: integer
TABLE_intf	
ifname	Type: interface
index	Type: uinteger
area	Type: string
cost	Type: uinteger
state_str	**UNKNOWN value: 0** **DOWN value: 1** **LOOPBACK value: 2** **WAITING value: 3** **P2P value: 4** **DROTHER value: 5** **BDR value: 6** **DR value: 7**
nbr_total	Type: integer
admin_status	**up value: 0** **down value: 1**

Command Modes

- /exec

show ospfv3 lsa-content-changed-list

show [ipv6] ospfv3 [*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*] [*advrtr*] [*seqno*] [*cksum*] [*age*]]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
lsa-content-changed-list	LSAs that changed contents
interface	Type: interface OSPF enabled interface
ip-addr	Type: ipaddr Neighbor router ID
neighbor-name	Type: string DNS Name of the neighbor
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_lschg	
nbr_rid	Type: ipaddr
intf	Type: interface

nbr_addr	Type: ipv6addr
TABLE_lsa	
type	Type: integer
lsid	Type: ipaddr
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex
age	Type: uinteger

Command Modes

- /exec

show ospfv3 memory

show [ipv6] ospfv3 [*tag*] **memory** [**__readonly__ TABLE_mem** *ptag byte_total byte_consumed byte_overhead byte_allocated alloc_current alloc_created alloc_failed alloc_free bf_current bf_created bf_failed bf_free bf_byte_consumed bf_32_current bf_32_created bf_32_failed bf_32_free bf_32_byte_consumed slab_current slab_created slab_failed slab_free slab_byte_consumed if_index_alloc_failed nbr_index_alloc_failed*]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
memory	Memory usage statistics
__readonly__	
TABLE_mem	
ptag	Type: string
byte_total	Type: integer
byte_consumed	Type: integer
byte_overhead	Type: integer
byte_allocated	Type: uinteger
alloc_current	Type: integer
alloc_created	Type: integer
alloc_failed	Type: integer

alloc_free	Type: integer
bf_current	Type: integer
bf_created	Type: integer
bf_failed	Type: integer
bf_free	Type: integer
bf_byte_consumed	Type: uinteger
bf_32_current	Type: integer
bf_32_created	Type: integer
bf_32_failed	Type: integer
bf_32_free	Type: integer
bf_32_byte_consumed	Type: uinteger
slab_current	Type: integer
slab_created	Type: integer
slab_failed	Type: integer
slab_free	Type: integer
slab_byte_consumed	Type: integer
if_index_alloc_failed	Type: integer
nbr_index_alloc_failed	Type: integer

Command Modes

- /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 uptime ifid intf* [*multiarea*] *addr*]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
neighbors	Neighbor list
interface	Type: interface OSPF enabled interface
neighbor	Type: ipaddr Router ID of neighbor

neighbor-name	Type: string DNS Name of the neighbor
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
nbrcount	Type: integer
TABLE_nbr	
rid	Type: ipaddr
priority	Type: integer
state	**UNKNOWN value: 0** **DOWN value: 1** **ATTEMPT value: 2** **INIT value: 3** **TWOWAY value: 4** **EXSTART value: 5** **EXCHANGE value: 6** **LOADING value: 7** **FULL value: 8**
uptime	Type: duration
ifid	Type: uinteger
intf	Type: interface
multiarea	Type: bool
addr	Type: ipv6addr

Command Modes

- /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*]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
neighbors	Neighbor list

interface	Type: interface OSPF enabled interface
neighbor	Type: ipaddr Router ID of neighbor
detail	Show detailed neighbor display
private	Developer-only statistics
private	Developer-only statistics
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_nbr	
rid	Type: ipaddr
addr	Type: ipv6addr
area	Type: string
intf	Type: interface
state	**UNKNOWN value: 0** **DOWN value: 1** **ATTEMPT value: 2** **INIT value: 3** **TWOWAY value: 4** **EXSTART value: 5** **EXCHANGE value: 6** **LOADING value: 7** **FULL value: 8**
transition	Type: integer
lastchange	Type: duration

bfd_state	Type: string
priority	Type: integer
ifid	Type: integer
dr	Type: ipaddr
bdr	Type: ipaddr
master	**master value: 0** **slave value: 1**
seqno	Type: integer
dbdallsentacked	Type: bool
dbdallsent	Type: bool
dbdallacked	Type: bool
lsaonreqlist	Type: integer
lsafromlastreq	Type: integer
lsreqrxmts	Type: integer
helloptions	Type: hex
dbdoptions	Type: hex
lastnonhello	Type: duration
deadtimer	Type: duration
pacingtimer	Type: duration
dbdrxmtimer	Type: duration
reqrxmtimer	Type: duration
lsutimer	Type: duration
rerxmtimer	Type: duration
fastrerxmtimer	Type: duration
lsacktimer	Type: duration
grtimer	Type: duration

helpermode	Type: bool
helpercand	Type: bool
helperterm	Type: bool
senddbd	Type: bool
sendlsreq	Type: bool
sendlsu	Type: bool
sendlsurxmt	Type: bool
sendlsack	Type: bool
sendlsreqreply	Type: bool

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
neighbors	Neighbor list
interface	Type: interface OSPF enabled interface
summary	Summary of neighbors

__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_intf	
ifname	Type: interface
total	Type: bool
down	Type: integer
attempt	Type: integer
init	Type: integer
twoway	Type: integer
exstart	Type: integer
exchange	Type: integer
loading	Type: integer
full	Type: integer
if_total	Type: integer

Command Modes

- /exec

show ospfv3 policy statistics

show [ipv6] ospfv3 [*tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **policy statistics** {**redistribute** {**bgp** *as*| {**isis**| **rip**} *tag*| **static**| **direct**| **amt**}| **area** *area-id-ip* **filter-list** {**in**| **out**}} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
rip	Routing Information Protocol (RIP)

isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
as	Type: integer min: 1 max: 65535 Autonomous system number
static	Static
direct	Directly connected
amt	AMT anycast prefix
area	Configure area properties
area-id-ip	Type: ipaddr Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
in	Filter networks sent to this area
out	Filter networks sent from this area

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
request-list	Link state request list
interface	Type: interface OSPF enabled interface
ip-addr	Type: ipaddr Neighbor router ID
neighbor-name	Type: string DNS Name of the neighbor
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_lsreq	
nbr_rid	Type: ipaddr
intf	Type: interface

nbr_addr	Type: ipv6addr
total	Type: integer
TABLE_lsa	
type	Type: integer
lsid	Type: ipaddr
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex
age	Type: uinteger

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
retransmission-list	Link state retransmission list
routerid	Type: ipaddr Neighbor router ID
router-name	Type: string DNS Name of the router
interface	Type: interface OSPF enabled interface
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_rxmit	
nbr_rid	Type: ipaddr
intf	Type: interface

nbr_addr	Type: ipv6addr
timer_running	Type: bool
timer_due	Type: duration
TABLE_lsa	
type	Type: integer
lsid	Type: ipaddr
advrtr	Type: ipaddr
seqno	Type: hex
cksum	Type: hex
age	Type: uinteger

Command Modes

- /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_rib direct* [*area*] [*tag*] [*vlink_unresolved*] [**TABLE_route_ubest_nh** [*ubest_nh_addr*] [*ubest_nh_intf*] [*ubest_cost*] [*distance*] [*ubest_nh_direct*]] [**TABLE_route_mbest_nh** [*mbest_nh_addr*] [*mbest_nh_intf*] [*mbest_cost*] [*mbest_nh_direct*]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
route	Internal OSPF routes
ipv6-prefix	Type: ipv6prefix Show single exact match OSPF route

longer-prefixes	Show exact match and more specific routes
all_routes	Display all OSPFv3 routes
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
hdr_addr	Type: ipv6addr
hdr_masklen	Type: integer
TABLE_route	
addr	Type: ipv6addr
masklen	Type: integer
type	**nopath value: 0** **discard-internal value: 1** **discard-external value: 2** **intra value: 3** **inter value: 4** **type-1 value: 5** **nssa type-1 value: 6** **type-2 value: 7** **nssa type-2 value: 8** **unknown value: 9**
in_rib	Type: bool
direct	Type: bool
area	Type: string
tag	Type: uinteger
vlink_unresolved	Type: bool

TABLE_route_ubest_nh	
ubest_nh_addr	Type: ipv6addr
ubest_nh_intf	Type: interface
ubest_cost	Type: uinteger
distance	Type: integer
ubest_nh_direct	Type: bool
TABLE_route_mbest_nh	
mbest_nh_addr	Type: ipv6addr
mbest_nh_intf	Type: interface
mbest_cost	Type: uinteger
mbest_nh_direct	Type: bool

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
route	Internal OSPF routes
ipv6-prefix	Type: ipv6prefix Show single exact match OSPF route
longer-prefixes	Show exact match and more specific routes

summary	Show route counts
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_route	
total_routes	Type: integer
total_paths	Type: integer
TABLE_route_type	
path_type	**nopath value: 0** **discard-internal value: 1** **discard-external value: 2** **intra value: 3** **inter value: 4** **type-1 value: 5** **nssa type-1 value: 6** **type-2 value: 7** **nssa type-2 value: 8** **unknown value: 9**
path_routes	Type: integer
path_paths	Type: integer
TABLE_route_masklen	
masklen	Type: integer
masklen_routes	Type: integer
masklen_paths	Type: integer

Command Modes

- /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_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 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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name

vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
statistics	Event counters
__readonly__	
TABLE_stats	
ptag	Type: string
cname	Type: string
last_clear	Type: duration
rid_change	Type: integer
dr_elections	Type: integer
older_lsa_recv	Type: integer
nbr_state_change	Type: integer
nbr_dead_postpone	Type: integer
nbr_dead_expire	Type: integer
nbr_bad_lsreq	Type: integer
nbr_seqno_mismatch	Type: integer
spf_full	Type: integer
spf_summary	Type: integer
spf_external	Type: integer
spf_extsummary	Type: integer
rtr_generate	Type: integer
rtr_refresh	Type: integer
rtr_flush	Type: integer
rtr_other_flush	Type: integer
net_generate	Type: integer
net_refresh	Type: integer

net_flush	Type: integer
net_other_flush	Type: integer
inter_prefix_generate	Type: integer
inter_prefix_refresh	Type: integer
inter_prefix_flush	Type: integer
inter_prefix_other_flush	Type: integer
inter_router_generate	Type: integer
inter_router_refresh	Type: integer
inter_router_flush	Type: integer
inter_router_other_flush	Type: integer
asext_generate	Type: integer
asext_refresh	Type: integer
asext_flush	Type: integer
asext_other_flush	Type: integer
link_generate	Type: integer
link_refresh	Type: integer
link_flush	Type: integer
link_other_flush	Type: integer
intra_prefix_generate	Type: integer
intra_prefix_refresh	Type: integer
intra_prefix_flush	Type: integer
intra_prefix_other_flush	Type: integer
unknown_generate	Type: integer
unknown_refresh	Type: integer
unknown_flush	Type: integer
unknown_other_flush	Type: integer

limbo_lsa_count	Type: integer
limbo_lsa_hwm	Type: integer
limbo_lsa_deleted	Type: integer
limbo_lsa_revived	Type: integer
limbo_runs	Type: integer
limbo_lsa_last_time_hwm	Type: string
limbo_timer	Type: duration
helloq_size	Type: integer
helloq_max_size	Type: integer
helloq_hwm	Type: integer
helloq_drops	Type: integer
helloq_last_hwm_time	Type: string
floodq_size	Type: integer
floodq_max_size	Type: integer
floodq_hwm	Type: integer
floodq_drops	Type: integer
floodq_last_hwm_time	Type: string
lsdb_add_fail	Type: integer
TABLE_buffer_detail	
buf_size	Type: integer
buf_size_huge	Type: bool
buf_in_use	Type: integer
buf_hwm	Type: integer
buf_perm	Type: integer
buf_alloc	Type: integer
buf_free	Type: integer

Command Modes

- /exec

show ospfv3 summary-address

show [ipv6] ospfv3 [*tag*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] **summary-address** [**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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
summary-address	Summary-address redistribution information
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string

rid	Type: ipaddr
TABLE_sum	
addr	Type: ipv6addr
masklen	Type: integer
metric	Type: integer
tag	Type: uinteger
pending	Type: bool

Command Modes

- /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* [*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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
interface	Type: interface OSPF enabled interface
detail	Display detailed information
vrf	Display per-VRF information

vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
traffic	Packet counters
__readonly__	
TABLE_traf	
ptag	Type: string
cname	Type: string
last_clear	Type: duration
ifname	Type: interface
pkt_in	Type: integer
pkt_out	Type: integer
lsu_first_trans	Type: integer
lsu_retrans	Type: integer
lsu_for_lsreq	Type: integer
lsu_nbr_trans	Type: integer
throttle_out	Type: integer
throttle_out_token	Type: integer
throttle_out_ip	Type: integer
lsa_ignored	Type: integer
lsa_dropped_spf	Type: integer
lsa_dropped_gr	Type: integer
pkt_drops_in	Type: integer

pkt_drops_out	Type: integer
pkt_errors_in	Type: integer
pkt_errors_out	Type: integer
hello_errors_in	Type: integer
dbds_errors_in	Type: integer
lsreqs_errors_in	Type: integer
lsus_errors_in	Type: integer
lsacks_errors_in	Type: integer
pkt_unknown_in	Type: integer
pkt_unknown_out	Type: integer
pkt_no_ospf_intf	Type: integer
bad_version	Type: integer
bad_crc	Type: integer
dup_rtr_id	Type: integer
dup_src_addr	Type: integer
invalid_src_addr	Type: integer
invalid_dst_addr	Type: integer
non_existing_nbr	Type: integer
pkt_passive_intf	Type: integer
wrong_area	Type: integer
invalid_pkt_len	Type: integer
nbr_changed_routerid_ipaddr	Type: integer
bad_auth	Type: integer
bad_reserved	Type: integer
pkt_no_vrf	Type: integer
hellos_in	Type: integer

dbds_in	Type: integer
lsreqs_in	Type: integer
lsus_in	Type: integer
lsacks_in	Type: integer
hellos_out	Type: integer
dbds_out	Type: integer
lsreqs_out	Type: integer
lsus_out	Type: integer
lsacks_out	Type: integer
hellos_in_hq	Type: integer
dbds_in_hq	Type: integer
lsreqs_in_flq	Type: integer
lsus_in_flq	Type: integer
lsacks_in_flq	Type: integer
lsas_in_dbds_in	Type: integer
lsas_in_lsreqs_in	Type: integer
lsas_in_lsus_in	Type: integer
lsas_in_lsacks_in	Type: integer
lsas_in_dbds_out	Type: integer
lsas_in_lsreqs_out	Type: integer
lsas_in_lsus_out	Type: integer
lsas_in_lsacks_out	Type: integer
lsas_in_rxmt_lsus_out	Type: integer

Command Modes

- /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_adjs*] [*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*] [*helloptions*] [*dbdoptions*] [*lastnonhello*] [*deadtimer*] [*pacingtimer*] [*dbdrxmtimer*] [*reqrxmtimer*] [*lsutimer*] [*rerxmtimer*] [*fastrerxmtimer*] [*lsacktimer*] [*grtimer*] [*helpermode*] [*helpercand*] [*helperterm*] [*senddbd*] [*sendlsreq*] [*sendlsu*] [*sendlsurxmt*] [*sendlsack*] [*sendlsreqreply*]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs

virtual-links	Virtual link information
__readonly__	
TABLE_ctx	
ptag	Type: string
cname	Type: string
TABLE_vlink	
name	Type: string
nbr_rid	Type: ipaddr
if_state	**up value: 0** **down value: 1**
transit_area	Type: string
nh_intf	Type: interface
nbr_addr	Type: ipv6addr
transit_area_stub	Type: bool
transit_area_nssa	Type: bool
addr	Type: ipv6addr
masklen	Type: integer
inst_id	Type: integer
area	Type: string
if_cfg	Type: bool

state_str	**UNKNOWN value: 0** **DOWN value: 1** **LOOPBACK value: 2** **WAITING value: 3** **P2P value: 4** **DROTHER value: 5** **BDR value: 6** **DR value: 7**
type_str	**UNKNOWN value: 0** **LOOPBACK value: 1** **P2P value: 2** **P2MP value: 3** **NBMA value: 4** **BROADCAST value: 5**
cost	Type: integer
index	Type: integer
passive	Type: bool
mpls	Type: bool
transmit_delay	Type: integer
if_priority	Type: integer
dr_rid	Type: ipaddr
dr_addr	Type: ipv6addr
bdr_rid	Type: ipaddr
bdr_addr	Type: ipv6addr
nbr_total	Type: integer

nbr_flood	Type: integer
nbr_adjs	Type: integer
gr_nbr	Type: integer
hello_interval	Type: integer
dead_interval	Type: integer
wait_interval	Type: integer
rxmt_interval	Type: integer
hello_timer	Type: duration
wait_timer	Type: duration
pacing_timer	Type: duration
lsu_timer	Type: duration
lsack_timer	Type: duration
netlsa_throt_timer	Type: duration
link_lsa_cnt	Type: integer
link_lsa_crc	Type: integer
state	**unknown value: 0** **down value: 1** **attempt value: 2** **init value: 3** **twoway value: 4** **exstart value: 5** **exchange value: 6** **loading value: 7** **full value: 8**
transition	Type: integer

lastchange	Type: duration
priority	Type: integer
ifid	Type: integer
dr	Type: ipaddr
bdr	Type: ipaddr
master	**master value: 0** **slave value: 1**
seqno	Type: integer
dbdallsentacked	Type: bool
dbdallsent	Type: bool
dbdallacked	Type: bool
lsaonreqlist	Type: integer
lsafromlastreq	Type: integer
lsreqrxmts	Type: integer
helloptions	Type: integer
dbdoptions	Type: integer
lastnonhello	Type: duration
deadtimer	Type: duration
pacingtimer	Type: duration
dbdrxmtimer	Type: duration
reqrxmtimer	Type: duration
lsutimer	Type: duration
rerxmtimer	Type: duration
fastrerxmtimer	Type: duration
lsacktimer	Type: duration
grtimer	Type: duration

helpermode	Type: bool
helpercand	Type: bool
helperterm	Type: bool
senddbd	Type: bool
sendlsreq	Type: bool
sendlsu	Type: bool
sendlsurxmt	Type: bool
sendlsack	Type: bool
sendlsreqreply	Type: bool

Command Modes

- /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	Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf length: 20 Process tag
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPFv3 virtual links
__readonly__	
TABLE_ctx	

ptag	Type: string
cname	Type: string
vlink_count	Type: integer
TABLE_vlink	
nbr_rid	Type: ipaddr
vlink_num	Type: uinteger
transit_area	Type: string
cost	Type: integer
if_state	**up value: 0** **down value: 1**

Command Modes

- /exec

show otv mroute

show otv mroute [[*overlay-if*] [**vlan** *vlan-id*] [**source** *saddr*] [**group** *gaddr*]]+ **[detail] [startup] [iodcache] [summary]** [**__readonly__ TABLE_overlay** [*if-name*] **TABLE_mroute** *vlan-id src-addr grp-addr mask metric uptime* [**TABLE_rowner** *rowner*] *nh-count* [**TABLE_oif** [*oif*] [*site*] *oif-uptime* [**TABLE_oif_owner** *oif-owner*]]]

Syntax Description

show	Show running system information
otv	Display OTV information
mroute	OTV multicast routes only
overlay-if	Type: interface Overlay interface
vlan	Display routes for a specific VLAN
vlan-id	Type: vlan Vlan-ID
source	multicast source
saddr	Type: ipaddr source ipv4 address
group	multicast group
gaddr	Type: ipaddr group ipv4 address
detail	display details
startup	display startup and all other mroutes
iodcache	display tunnel iods cached for the route
summary	Display summary of multicast routes
__readonly__	
TABLE_overlay	
if-name	Type: interface
TABLE_mroute	
vlan-id	Type: uinteger

src-addr	Type: string
grp-addr	Type: string
mask	Type: string
metric	Type: uinteger
uptime	Type: duration
TABLE_rowner	
rowner	Type: string
nh-count	Type: uinteger
TABLE_oif	
oif	Type: string
site	Type: uinteger
oif-uptime	Type: duration
TABLE_oif_owner	
oif-owner	Type: string

Command Modes

- /exec

show otv route

show otv route [[*overlay-if* [**neighbor-address** *nipaddr*]] [**vlan** *vlan-id*] [*mac-address*]]+ **[summary]** [**__readonly__ TABLE_overlay** *if-name* **TABLE_route** *vlan-id mac-addr metric owner next-hop uptime* [**TABLE_nexthop** *next-hop1*]]

Syntax Description

show	Show running system information
otv	Display OTV information
route	OTV route or MAC address table
overlay-if	Type: interface Overlay interface
neighbor-address	Remote neighbor
nipaddr	Type: ipaddr IPv4 address
vlan	Display routes for a specific VLAN
vlan-id	Type: vlan Vlan-ID
mac-address	Type: ethernet MAC Address
summary	Display summary of unicast routes
__readonly__	
TABLE_overlay	
if-name	Type: interface
TABLE_route	
vlan-id	Type: uinteger
mac-addr	Type: string
metric	Type: uinteger
uptime	Type: duration
owner	Type: string

next-hop	Type: string
TABLE_nexthop	
next-hop1	Type: string

Command Modes

- /exec

P Show Commands

- show password secure-mode, page 2303
- show password strength-check, page 2304
- show pmap-int-br interface br, page 2305
- show pmap-int, page 2306
- show policy-map, page 2323
- show policy-map interface control-plane, page 2337
- show policy-map system, page 2346
- show policy-map type control-plane, page 2352
- show policy-map type network-qos, page 2360
- show port-channel capacity, page 2362
- show port-channel compatibility-parameters, page 2363
- show port-channel database, page 2364
- show port-channel load-balance, page 2367
- show port-channel load-balance forwarding-path, page 2383
- show port-channel rbh-distribution, page 2386
- show port-channel summary, page 2387
- show port-channel traffic, page 2389
- show port-channel usage, page 2391
- show port-security, page 2392
- show port-security address, page 2394
- show port-security address blocked, page 2396
- show port-security address interface, page 2398
- show port-security address nvram, page 2400
- show port-security detail interface, page 2402

- show port-security interface, page 2404
- show port-security multivlan address, page 2406
- show port-security secure address, page 2407
- show port-security state, page 2408
- show port-security traps enable, page 2409
- show privilege, page 2410
- show processes (launcher), page 2411
- show processes (process), page 2412
- show processes cpu, page 2413
- show processes cpu history, page 2415
- show processes cpu module, page 2416
- show processes log, page 2418
- show processes log details, page 2419
- show processes log pid, page 2420
- show processes log vdc-all, page 2421
- show processes memory, page 2422
- show processes memory clis, page 2423
- show processes memory shared, page 2424
- show processes vdc, page 2427
- show processes vdc cpu, page 2428
- show processes vdc log, page 2429
- show processes vdc log details, page 2430
- show processes vdc log pid, page 2431
- show processes vdc memory, page 2432

show password secure-mode

show password secure-mode

Syntax Description

show	Show running system information
password	Password for the user
secure-mode	secure mode for changing passwords

Command Modes

- /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__	
operation_status	run-time information about password strength-check
o_status	operational status of password strength check **disabled value: 0** **enabled value: 1**

Command Modes

- /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	all interfaces xml sessions
if-vlan-str	Type: string ifindex or vlan id: xml key
__readonly__	
if-status	Type: uinteger Interface/vlan status [active/inactive]: xml key
in-pmap-qos	Type: string Input QoS Policy-map name: xml key
out-pmap-qos	Type: string output QoS Policy-map name: xml key
in-pmap-que	Type: string Input Que Policy-map name: xml key
out-pmap-que	Type: string Output Que Policy-map name: xml key

Command Modes

- /exec

show pmap-int

show pmap-int {**interface** [*iface-list*] [**input**| **output**] [**type** *qos-or-q*]| **vlan** [*vlan-list*] [**inputx**| **outputx**] [**type qos**]} [**__readonly__** [*stat-en-dis-enum*] [**TABLE_ifvlanstr** *if-vlan-str* [*iface-str*] [*vlan-str*] [**TABLE_pmap** *pmap-key pmap-inner-outer in-or-out yqos-or-q* [*options*] *pmap-name* [*stat-status-enum*] [*snmp-policy-index*] [**TABLE_cmap** *cmap-key* [*xqos-or-q*] *match-opts cmap-name* [**TABLE_slot** *slot-key* [*slot-num*] [*class-pkts*] [*class-bytes*] [*class-off-rate*]] [*class-drop-rate*] [*agg-forward*] [*class-agg-pkts*] [*class-agg-bytes*] [**TABLE_match** *match-key* [*not*] [*inner*] [*cos-list*] [*dscp-list*] [*precedence-list*] [*discard-class-list*] [*exp-list*] [*qos-group-list*] [*match-cmap-xqos-or-q*] [*match-cmap-opts*] [*match-cmap-name*] [*match-acl-name*] [*pkt-len-list*] [*rtp-port-list*] [*prot*] [*input-iface-list*] [*match-cl-def*] [*match-pkts*] [*match-bytes*] [*match-rate*]] [**TABLE_action** *action-key* [*set-inner*] [*cos*] [*dscp*] [*dscp-enum*] [*prec*] [*prec-enum*] [*disc-class*] [*qos-group*] [*mpls-experimental-topmost*] [*mpls-experimental-imposition*] [*tmap-from*] [*tmap-to*] [*tmap-name*] [*serv-pol-type*] [*serv-pol-name*] [*serv-pol-return-inout*] [*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*] [*prio-level*] [*qlim-param-type*] [*qlim-param-val*] [*size-units*] [*qlim-size*] [*qlim-enum-spec*] [*rdet-agg*] [*rdet-mode*] [**TABLE_rdet** *rdet-key* [*rdet-values*] [*rdet-min-thresh*] [*rdet-size-units*] [*rdet-max-thresh*] [*rdet-drop-prob*] [*rdet-weight*] [*rdet-ecn*] [*rdet-cap-average*] [*rdet-burst-opt*] [*rdet-mesh-opt*]] [*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* [*conformed-bytes*] [*conformed-rate*] [*cnf-act*] [*exceeded-bytes*] [*exceeded-rate*] [*exc-act*] [*violated-bytes*] [*violated-rate*] [*vio-act*] [*set-type*] [*enum-spec*] [*set-val*] [*ptmap-from*] [*ptmap-to*] [*ptmap-name*]]] [*que-dropped-pkts*] [*que-cur-q-depth-bytes*]]]] [*display-all*]]

Syntax Description

show	Show running system information
pmap-int	Show policy maps
interface	Show service policy on interface
iface-list	Type: interface-mrange List of Interface
vlan	802.1Q vlan
vlan-list	Type: integer-mrange List of vlan ids
input	Input Service policy
output	Output Service policy
inputx	Input Service policy
outputx	Output Service policy
type	Type of policy

qos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
qos	Qos policy
__readonly__	
TABLE_ifvlanstr	all interfaces xml sessions
if-vlan-str	Type: string ifindex or vlan id: xml key
TABLE_pmap	all pmap xml sessions
pmap-key	Type: string Policy-map name: xml key
TABLE_rdet	all WRED sessions
rdet-key	Type: long Random-detect minimum threshold: xml key
TABLE_police	all police actions
police-key	Type: uinteger police actions count: xml key
TABLE_cmap	all cmap xml sessions
cmap-key	Type: string Class-map name: xml key
TABLE_action	all actions
action-key	Type: uinteger Actions count: xml key
TABLE_match	all match xml sessions
match-key	Type: uinteger match count: xml key
TABLE_slot	all slot xml sessions

slot-key	Type: uinteger slot count: xml key
display-all	Type: integer Display all kinds of class-maps
stat-en-dis-enum	**enable value: 1** Enable statistics for all policies **disable value: 2** Disable statistics for all policies
iface-str	Type: string Interface string
vlan-str	Type: string Vlan string
in-or-out	**input value: 1** Input policy **output value: 2** Output policy
yqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
options	Type: uinteger min: 0 max: 1 match-first option
pmap-name	Type: string Policy-map name
stat-status-enum	**no-stats value: 2** Disable statistics for this policy
snmp-policy-index	Type: uinteger SNMP policy index

pmap-inner-outer	Type: uinteger Inner or Outer policy-map
serv-pol-return-inout	Type: uinteger Inner or Outer policy-map
cmap-name	Type: string Class-map name
xqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
match-opts	Type: uinteger min: 1 max: 2 Type of match in class-map
match-cmap-xqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
match-cmap-opts	Type: uinteger min: 1 max: 2 Type of match in class-map
not	Type: uinteger Negate this match result
inner	Type: uinteger min: 0 max: 1 Specifies if tunnel or inner keywords are mentioned
dscp-list	Type: integer-mrange List of DSCP values
precedence-list	Type: integer-mrange List of precedence values

cos-list	Type: integer-mrange List of class-of-service values
qos-group-list	Type: integer-mrange List of qos-group values
discard-class-list	Type: integer-mrange List of discard-class values
exp-list	Type: integer-mrange List of MPLS exp values
match-cmap-name	Type: string class-map name
match-acl-name	Type: string Match class-map name
pkt-len-list	Type: integer-mrange Packet length multi-range
rtp-port-list	Type: integer-mrange IP RTP UDP port multi-range
prot	Type: integer Protocol
input-iface-list	Type: interface-mrange Input Interface multi-range
match-cl-def	Type: uinteger Match any criteria for class-default only
class-pkts	Type: long Number of packets matching a class
class-agg-pkts	Type: long Number of packets matching a class
class-bytes	Type: long Number of bytes matching a class
class-agg-bytes	Type: long Number of bytes matching a class

class-off-rate	Type: long 5 minute offered rate for the class
class-drop-rate	Type: long 5 minute drop rate for the class
match-pkts	Type: long Number of packets matching a particular match rule in a class
match-bytes	Type: long Number of bytes matching a particular match rule in a class
match-rate	Type: long 5 minute rate for the particular match rule in a class
serv-pol-type	Type: uinteger Type of service policy referred to
serv-pol-name	Type: string Name of policy-map referred to within this policy-map
set-inner	Type: uinteger min: 0 max: 1 Specifies if tunnel or inner keywords are mentioned
cos	Type: uinteger min: 0 max: 7 IEEE 802.1Q Class of Service value
dscp	Type: uinteger min: 0 max: 63 DSCP in IP(v4) and IPv6 packets

dscp-enum

af11 value: 10

AF11 dscp (001010)

af12 value: 12

AF12 dscp (001100)

af13 value: 14

AF13 dscp (001110)

af21 value: 18

AF21 dscp (010010)

af22 value: 20

AF22 dscp (010100)

af23 value: 22

AF23 dscp (010110)

af31 value: 26

AF31 dscp (011010)

af32 value: 28

AF32 dscp (011100)

af33 value: 30

AF33 dscp (011110)

af41 value: 34

AF41 dscp (100010)

af42 value: 36

AF42 dscp (100100)

af43 value: 38

AF43 dscp (100110)

cs1 value: 8

CS1(precedence 1) dscp (001000)

cs2 value: 16

CS2(precedence 2) dscp (010000)

cs3 value: 24

CS3(precedence 3) dscp (011000)

cs4 value: 32

CS4(precedence 4) dscp (100000)

cs5 value: 40

	CS5(precedence 5) dscp (101000) **cs6 value: 48** CS6(precedence 6) dscp (110000) **cs7 value: 56** CS7(precedence 7) dscp (111000) **default value: 0** default dscp (000000) **ef value: 46** EF dscp (101110)
prec	Type: uinteger min: 0 max: 7 Precedence in IP(v4) and IPv6 packets
prec-enum	**routine value: 0** Routine precedence (0) **priority value: 1** Priority precedence (1) **immediate value: 2** Immediate precedence (2) **flash value: 3** Flash precedence (3) **flash-override value: 4** Flash override precedence (4) **critical value: 5** Critical precedence (5) **internet value: 6** Internetwork control precedence (6) **network value: 7** Network control precedence (7)
disc-class	Type: uinteger min: 0 max: 63 Discard class

qos-group	Type: uinteger min: 0 max: 99 Qos-group
mpls-experimental-topmost	Type: uinteger min: 0 max: 7 MPLS Experimental Topmost
mpls-experimental-imposition	Type: uinteger min: 0 max: 7 MPLS Experimental Imposition
tmap-from	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5) **uf-cos value: 6** table map of unified-fabric cos type (6) **fc-up value: 7** table map of fc-up type (7) **mpls-topmost value: 14** table map of mpls-topmost type (14)

tmap-to	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5) **uf-cos value: 6** table map of unified-fabric cos type (6) **fc-up value: 7** table map of fc-up type (7) **mpls-imposition value: 13** table map of mpls-imposition type (13) **mpls-topmost value: 14** table map of mpls-topmost type (14)
tmap-name	Type: string Table map name

ptmap-from	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5) **uf-cos value: 6** table map of unified-fabric cos type (6) **fc-up value: 7** table map of fc-up type (7) **mpls-topmost value: 14** table map of mpls-topmost type (14)

ptmap-to	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5) **uf-cos value: 6** table map of unified-fabric cos type (6) **fc-up value: 7** table map of fc-up type (7) **mpls-imposition value: 13** table map of mpls-imposition type (13) **mpls-topmost value: 14** table map of mpls-topmost type (14)
ptmap-name	Type: string Table map name
avg-rate-type	Type: uinteger min: 0 max: 1 Specifies if average shape rate is specified
shape-rate	Type: long Shape average rate
rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us
min-rate-type	Type: uinteger min: 0 max: 1 Specifies if minimum shape rate is specified
shape-min-rate	Type: long Shape minimum rate

min-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us
max-rate-type	Type: uinteger min: 0 max: 1 Specifies if maximum shape rate is specified
shape-max-rate	Type: long Shape maximum rate
max-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us
cir-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us, pps
pir-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us, pps
prio-level	Type: uinteger Priority if specified
qlim-param-type	Type: uinteger Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
qlim-param-val	Type: uinteger Parameter value for qlimit
qlim-size	Type: uinteger Queue size for qlimit
size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
rdet-size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
bc-size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
be-size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
qlim-enum-spec	Type: uinteger Weather qlimit parameter is specified in enum or not

rdet-mode	Type: uinteger Random-detect mode
rdet-agg	Type: uinteger min: 0 max: 1 Are the params for aggregate flow
rdet-values	Type: integer-mrange List of class-of-service values for random-detect
rdet-min-thresh	Type: long Random-detect minimum threshold
rdet-max-thresh	Type: long Random-detect maximum threshold
rdet-drop-prob	Type: uinteger Random-detect drop probability
rdet-weight	Type: uinteger Random-detect queue length weight
rdet-cap-average	Type: uinteger Random-detect cap-average
rdet-ecn	Type: uinteger Random-detect ECN
rdet-burst-opt	Type: uinteger Random-detect burst optimized
rdet-mesh-opt	Type: uinteger Random-detect mesh optimized
bw-units	Type: uinteger Bandwidth units
bw-rate	Type: long Bandwidth rate
rem-bw-units	Type: uinteger Remaining bandwidth units
rem-bw-rate	Type: uinteger Remaining bandwidth rate

agg-policer-name	Type: string Aggregate policer name
cir-spec	Type: uinteger min: 0 max: 1 Is CIR keyword specified
bc-spec	Type: uinteger min: 0 max: 1 Is Committed Burst keyword specified
be-spec	Type: uinteger min: 0 max: 1 Is Extended Burst keyword specified
cir	Type: long Committed Information Rate
bc	Type: long Committed Burst Size
pir	Type: long Peak Information Rate
be	Type: long Extended Burst Size
cnf-col-cmap	Type: string Conforming color class-map name
exc-col-cmap	Type: string Exceeding color class-map name
enum-spec	Type: uinteger min: 0 max: 1 Is DSCP or PREC enum value specified
cnf-act	Type: uinteger Conform action (Police)
exc-act	Type: uinteger Exceed action (Police)

vio-act	Type: uinteger Violate action (Police)
set-type	Type: uinteger Type of set in police action
set-val	Type: uinteger Value of set type in police action
conformed-bytes	Type: long Conformed byte count
exceeded-bytes	Type: long Exceeded byte count
violated-bytes	Type: long Violated byte count
conformed-rate	Type: long Conformed bit rate
exceeded-rate	Type: long Exceeded bit rate
violated-rate	Type: long Violated byte count
que-dropped-pkts	Type: long Queue Dropped Packets
que-cur-q-depth-bytes	Type: long Current Queue Depth
agg-forward	Type: uinteger prints out aggregate forward
slot-num	Type: uinteger the slot number

Command Modes

- /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* [*desc*] [**TABLE_cmap** *cmap-key* [*type-cmap-spec*] [*xqos-or-q*] [*cmap-name*] [**TABLE_action** *action-key* [*serv-pol-type*] [*serv-pol-name*] [*inner*] [*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*] [*prio-level*] [*qlim-param-type*] [*qlim-param-val*] [*ooo*] [*size-units*] [*qlim-size*] [*qlim-enum-spec*] [*rdet-agg*] [*rdet-mode*] [**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*] [*rdet-burst-opt*] [*rdet-mesh-opt*]] [*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*]]]]]]

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
qos	type qos
queuing	type queuing
pmap-name-qos	Type: string antipattern: type | typ | ty | t length: 40 policy map name (type qos)
pmap-name-que	Type: string antipattern: type | typ | ty | t length: 40 policy map name (type queuing)
__readonly__	
display-all	Type: integer Display all kinds of class-maps
TABLE_pmap	all pmap xml sessions

pmap-key	Type: string Policy-map name: xml key
TABLE_rdet	all WRED sessions
rdet-key	Type: long Random-detect minimum threshold: xml key
TABLE_police	all police actions
police-key	Type: uinteger police actions count: xml key
TABLE_cmap	all cmap xml sessions
cmap-key	Type: string Class-map name: xml key
TABLE_action	all actions
action-key	Type: uinteger Actions count: xml key
yqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
options	Type: uinteger min: 0 max: 1 match-first option
pmap-name-out	Type: string Policy-map name
desc	Type: string length: 200 Description string
cmap-name	Type: string Class-map name

xqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
serv-pol-type	Type: uinteger Type of service policy referred to
serv-pol-name	Type: string Name of policy-map referred to within this policy-map
type-spec	Type: uinteger min: 0 max: 1 Type of policy-map specified or not
type-cmap-spec	Type: uinteger min: 0 max: 1 Type of class-map specified or not
inner	Type: uinteger min: 0 max: 1 Specifies if tunnel or inner keywords are mentioned
cos	Type: uinteger min: 0 max: 7 IEEE 802.1Q Class of Service value
exp-val-imposition	Type: uinteger min: 0 max: 7 MPLS EXP value of type imposition
exp-val-topmost	Type: uinteger min: 0 max: 7 MPLS EXP calue of type topmost
dscp	Type: uinteger min: 0 max: 63 DSCP in IP(v4) and IPv6 packets

dscp-enum

af11 value: 10

AF11 dscp (001010)

af12 value: 12

AF12 dscp (001100)

af13 value: 14

AF13 dscp (001110)

af21 value: 18

AF21 dscp (010010)

af22 value: 20

AF22 dscp (010100)

af23 value: 22

AF23 dscp (010110)

af31 value: 26

AF31 dscp (011010)

af32 value: 28

AF32 dscp (011100)

af33 value: 30

AF33 dscp (011110)

af41 value: 34

AF41 dscp (100010)

af42 value: 36

AF42 dscp (100100)

af43 value: 38

AF43 dscp (100110)

cs1 value: 8

CS1(precedence 1) dscp (001000)

cs2 value: 16

CS2(precedence 2) dscp (010000)

cs3 value: 24

CS3(precedence 3) dscp (011000)

cs4 value: 32

CS4(precedence 4) dscp (100000)

cs5 value: 40

	CS5(precedence 5) dscp (101000) **cs6 value: 48** CS6(precedence 6) dscp (110000) **cs7 value: 56** CS7(precedence 7) dscp (111000) **default value: 0** default dscp (000000) **ef value: 46** EF dscp (101110)
prec	Type: uinteger min: 0 max: 7 Precedence in IP(v4) and IPv6 packets
prec-enum	**routine value: 0** Routine precedence (0) **priority value: 1** Priority precedence (1) **immediate value: 2** Immediate precedence (2) **flash value: 3** Flash precedence (3) **flash-override value: 4** Flash override precedence (4) **critical value: 5** Critical precedence (5) **internet value: 6** Internetwork control precedence (6) **network value: 7** Network control precedence (7)
disc-class	Type: uinteger min: 0 max: 63 Discard class

qos-group	Type: uinteger min: 0 max: 3 Qos-group
tmap-from	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5) **uf-cos value: 6** table map of unified-fabric cos type (6) **fc-up value: 7** table map of fc-up type (7) **mpls-topmost value: 14** table map of mpls-topmost type (14)

tmap-to	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5) **uf-cos value: 6** table map of unified-fabric cos type (6) **fc-up value: 7** table map of fc-up type (7) **mpls-imposition value: 13** table map of mpls-imposition type (13) **mpls-topmost value: 14** table map of mpls-topmost type (14)
tmap-name	Type: string Table map name

ptmap-from

cos value: 1

table map of cos type (1)

dscp value: 2

table map of dscp type (2)

prec value: 3

table map of prec type (3)

qos-grp value: 5

table map of qos-grp type (4)

dis-cl value: 4

table map of discard-class type (5)

uf-cos value: 6

table map of unified-fabric cos type (6)

fc-up value: 7

table map of fc-up type (7)

mpls-topmost value: 14

table map of mpls-topmost type (14)

ptmap-to	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5) **uf-cos value: 6** table map of unified-fabric cos type (6) **fc-up value: 7** table map of fc-up type (7) **mpls-imposition value: 13** table map of mpls-imposition type (13) **mpls-topmost value: 14** table map of mpls-topmost type (14)
ptmap-name	Type: string Table map name
avg-rate-type	Type: uinteger min: 0 max: 1 Specifies if average shape rate is specified
shape-rate	Type: long Shape average rate
rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us
min-rate-type	Type: uinteger min: 0 max: 1 Specifies if minimum shape rate is specified
shape-min-rate	Type: long Shape minimum rate

min-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us
max-rate-type	Type: uinteger min: 0 max: 1 Specifies if maximum shape rate is specified
shape-max-rate	Type: long Shape maximum rate
max-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us
cir-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us, pps
pir-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us, pps
prio-level	Type: uinteger Priority if specified
qlim-param-type	Type: uinteger Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
qlim-param-val	Type: uinteger Parameter value for qlimit
qlim-size	Type: uinteger Queue size for qlimit
size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
rdet-size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
bc-size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
be-size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
qlim-enum-spec	Type: uinteger Weather qlimit parameter is specified in enum or not

rdet-mode	Type: uinteger Random-detect mode
rdet-agg	Type: uinteger min: 0 max: 1 Are the params for aggregate flow
rdet-values	Type: integer-mrange List of class-of-service values for random-detect
rdet-min-thresh	Type: long Random-detect minimum threshold
rdet-max-thresh	Type: long Random-detect maximum threshold
rdet-drop-prob	Type: uinteger Random-detect drop probability
rdet-weight	Type: uinteger Random-detect queue length weight
rdet-cap-average	Type: uinteger Random-detect cap-average
rdet-ecn	Type: uinteger Random-detect ECN
rdet-burst-opt	Type: uinteger Random-detect burst optimized
rdet-mesh-opt	Type: uinteger Random-detect mesh optimized
bw-units	Type: uinteger Bandwidth units
bw-rate	Type: long Bandwidth rate
rem-bw-units	Type: uinteger Remaining bandwidth units
rem-bw-rate	Type: long Remaining bandwidth rate

agg-policer-name	Type: string Aggregate policer name
cir-spec	Type: uinteger min: 0 max: 1 Is CIR keyword specified
bc-spec	Type: uinteger min: 0 max: 1 Is Committed Burst keyword specified
be-spec	Type: uinteger min: 0 max: 1 Is Extended Burst keyword specified
cir	Type: long Committed Information Rate
bc	Type: long Committed Burst Size
pir	Type: long Peak Information Rate
be	Type: long Extended Burst Size
cnf-col-cmap	Type: string Conforming color class-map name
exc-col-cmap	Type: string Exceeding color class-map name
enum-spec	Type: uinteger min: 0 max: 1 Is DSCP or PREC enum value specified
cnf-act	Type: uinteger Conform action (Police)
exc-act	Type: uinteger Exceed action (Police)

vio-act	Type: uinteger Violate action (Police)
set-type	Type: uinteger Type of set in police action
set-val	Type: uinteger Value of set type in police action
ooo	Type: uinteger Out-of-Order

Command Modes

- /exec

show policy-map interface control-plane

show policy-map interface control-plane {[**module** *slot-no-in* [**class** *cmap-name*]]| [**class** *cmap-name* [**module** *slot-no-in*]]} [**__readonly__** [*scale-factor-cmd*] *pmap-name* [**TABLE_cmap** *cmap-key cmap-name-out opt_any_or_all* [**TABLE_match** *match-key* [**access_grp** *acc_grp_name*] [**redirect** *opt_match_redirect*] [**exception** *opt_match_excpt*] [**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	module number for statistics
class	class-name name
cmap-name	Type: string Name of the class-map
pmap-name	Type: string Name of the Policy-map
__readonly__	
scale-factor-cmd	Type: string Scale factor command
TABLE_cmap	all cmap xml sessions
cmap-key	Type: string Class-map key : XML output
cmap-name-out	Type: string Name of the output class-map

opt_any_or_all	Enter match-any or match-all **match-any value: 1** Logical-OR all match statements under this classmap **match-all value: 2** Logical-AND all match statements under this classmap
TABLE_match	all match xml sessions
match-key	Type: uinteger Match key : XML output
access_grp	
acc_grp_name	Type: string
redirect	
opt_match_redirect	Match criteria for redirected packets **dhcp-snoop value: 3** Match redirected packets for dhcp **arp-inspect value: 6** Match redirected packets for arp-inspect
exception	

opt_match_excpt

Match criteria for exception packets

ip-option value: 1

Match exception packets for ip-options

ip-icmp-redirect value: 2

Match exception packets for ip-icmp-redirect

ip-icmp-unreachable value: 3

Match exception packets for ip-icmp-unreachable

urpf-failure value: 4

Match exception packets for urpf-failure

second-mrpf-failure value: 5

Match exception packets for second-mrpf-failure

ttl-failure value: 6

Match exception packets for ttl-failure

glean value: 7

Match exception packets for glean

ipv6-option value: 8

Match exception packets for ipv6-options

ipv6-icmp-redirect value: 9

Match exception packets for ipv6-icmp-redirect

ipv6-icmp-unreachable value: 10

Match exception packets for ipv6-icmp-unreachable

mtu-failure value: 11

Match exception packets for mtu-failure

multicast-rpf-failure value: 12

Match exception packets for multicast rpf-failure

multicast-directly-connected-sources value: 13

Match exception packets for multicast directly-connected-sources

ip-municast value: 14

Match exception packets for ip-municast

ipv6-municast value: 15

Match exception packets for ipv6-municast

fcoe-fib-miss value: 16

Match Exception Packets for FCoE FIB Miss

multicast-dest-miss value: 17

	Match Exception Packets for IP Multicast Destination Lookup Miss **multicast-sg-rpf-failure value: 18** Match exception packets for multicast sg rpf check failure
protocol	
opt_match_protocol	Match criteria for protocol packets **arp value: 1** IP ARP **mpls value: 13** Multi-protocol Label Switching **otv value: 17** OTV Overlay IS-IS frames **mpls_exp6 value: 18** MPLS Exp 6
class-pkts	Type: long Number of packets matching a class
class-bytes	Type: long Number of bytes matching a class
class-off-rate	Type: long 5 minute offered rate for the class
class-drop-rate	Type: long 5 minute drop rate for the class
set_vld_flg	Type: uinteger Set valid flag
cos	
inner	
cos-val	Type: uinteger Set cos val
dscp	
tunnel	
dscp-val	Type: uinteger Set dscp val

precedence	
tunnel1	
prec-val	Type: uinteger Set prec val
policer_show_flags	Type: uinteger Policer show flags
threshold	Type: long threshold count in bytes
level	Type: integer syslog severity level
cir	Type: long Committed Information Rate in bps/kbps/mbps/gbps
opt_kbps_mbps_gbps_pps_cir	Units **pps value: 8** Packets per second
percent	
cir-perc	Type: long Percent specification for cir
pir	Type: long Peak Information rate in bps/kbps/mbps/gbps
opt_kbps_mbps_gbps_pps_pir	Units **bps value: 1** Bits per second **kbps value: 2** Kilo Bits per second **mbps value: 3** Mega Bits per second **gbps value: 4** Giga Bits per second **pps value: 8** Packets per second

percent1	
pir-perc	Type: long Percent specification for pir
bc	Type: long Committed Information size in bytes/kbytes/mbytes/packets/ms/us
opt_kbytes_mbytes_gbytes_bc	Units **packets value: 8** Packets
be	Type: long Peak Information size in bytes/kbytes/mbytes/packets/ms/us
opt_kbytes_mbytes_gbytes_be	Units **bytes value: 1** Bytes **kbytes value: 2** Kilo Bytes **mbytes value: 3** Mega Bytes **packets value: 8** Packets **ms value: 5** Milli seconds **us value: 6** Micro seconds
TABLE_slot	all slot-num : XML output
slot-no-in	Type: uinteger min: 1 max: 30 input slot no
slot-no-out	Type: uinteger output slot no
conform-pkts	Type: long
conform-bytes	Type: long

exceed-pkts	Type: long
exceed-bytes	Type: long
violate-pkts	Type: long
violate-bytes	Type: long
opt_drop_transmit_conform	Set the action **transmit value: 1** Transmit the packet
set-cos-transmit	
set-cos-val	Type: uinteger Conform action cos val
set-dscp-transmit	
set-dscp-val	Type: uinteger Conform action dscp val
set-prec-transmit	
set-prec-val	Type: uinteger Conform action prec val
opt_drop_transmit_exceed	Set the action **drop value: 2** Drop the packet **transmit value: 1** Transmit the packet
set	
dscp1	
dscp2	
table	
cir-markdown-map	
opt_drop_transmit_violate	Set the action **drop value: 2** Drop the packet
set1	

dscp3
dscp4
table1
pir-markdown-map

Command Modes

- /exec

show policy-map system

show policy-map system [**type** {**network-qos**| **queuing** [**input**| **output**]}] [**__readonly__** *display-all desc xpmap-name xcmap-name cos-list qos-group-list protocol pause timeout size-in-bytes xoff-bytes xon-bytes pfc-cos-list cc thresh-units min-thresh max-thresh drop-prob iod mtu* [*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* [**TABLE_match** *match-key* [*not*] [*inner*] [*cos-list*] [*match-cmap-xqos-or-q*] [*match-cmap-opts*] [*match-cmap-name*]] [**TABLE_action** *action-key* [*set-inner*] [*cos*] [*serv-pol-type*] [*serv-pol-name*] [*serv-pol-return-inout*] [*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*]]]]]

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
system	Active policy in the system
network-qos	type network-qos
queuing	type queuing
input	input policy
output	output policy
__readonly__	
display-all	Type: integer Display all network-qos policy-maps
xpmap-name	Type: string Policy-map name
desc	Type: string length: 200 Description string
xcmap-name	Type: string Class-map name
min-thresh	Type: long Minimum Threshold value

max-thresh	Type: long Maximum Threshold value
thresh-units	Type: uinteger Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
drop-prob	Type: uinteger Drop Probability at Maximum Threshold value
pause	Type: uinteger Pause value
size-in-bytes	Type: long Ingress buffer for the no-drop class in bytes
xoff-bytes	Type: long buffer limit at which the port pauses the peer
xon-bytes	Type: long buffer limit at which the port resumes the peer
pfc-cos-list	Type: integer-mrange List of class-of-service values
timeout	Type: uinteger timeout value
cc	Type: uinteger congestion control protocol
iod	Type: uinteger IOD value
mtu	Type: uinteger MTU value
protocol	Type: integer protocol
cos-list	Type: integer-mrange List of class-of-service values
qos-group-list	Type: integer-mrange List of qos-group values

TABLE_pmap	all pmap xml sessions
pmap-key	Type: string Policy-map name: xml key
TABLE_cmap	all cmap xml sessions
cmap-key	Type: string Class-map name: xml key
TABLE_action	all actions
action-key	Type: uinteger Actions count: xml key
TABLE_match	all match xml sessions
match-key	Type: uinteger match count: xml key
stat-en-dis-enum	**enable value: 1** Enable statistics for all policies **disable value: 2** Disable statistics for all policies
in-or-out	**input value: 1** Input policy **output value: 2** Output policy
yqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
stat-status-enum	**no-stats value: 2** Disable statistics for this policy

options	Type: uinteger min: 0 max: 1 match-first option
pmap-name	Type: string Policy-map name
pmap-inner-outer	Type: uinteger Inner or Outer policy-map
serv-pol-return-inout	Type: uinteger Inner or Outer policy-map
cmap-name	Type: string Class-map name
xqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
match-opts	Type: uinteger min: 1 max: 2 Type of match in class-map
match-cmap-xqos-or-q	**qos value: 1** qos policy **queuing value: 2** queuing policy
match-cmap-opts	Type: uinteger min: 1 max: 2 Type of match in class-map
not	Type: uinteger Negate this match result
inner	Type: uinteger min: 0 max: 1 Specifies if tunnel or inner keywords are mentioned

cos-list	Type: integer-mrange List of class-of-service values
match-cmap-name	Type: string class-map name
serv-pol-type	Type: uinteger Type of service policy referred to
serv-pol-name	Type: string Name of policy-map referred to within this policy-map
set-inner	Type: uinteger min: 0 max: 1 Specifies if tunnel or inner keywords are mentioned
cos	Type: uinteger min: 0 max: 7 IEEE 802.1Q Class of Service value
prio-level	Type: uinteger Priority if specified
qlim-param-type	Type: uinteger Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
qlim-param-val	Type: uinteger Parameter value for qlimit
qlim-size	Type: uinteger Queue size for qlimit
size-units	Type: uinteger Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
qlim-enum-spec	Type: uinteger Weather qlimit parameter is specified in enum or not
bw-units	Type: uinteger Bandwidth units
bw-rate	Type: long Bandwidth rate

rem-bw-units	Type: uinteger Remaining bandwidth units
rem-bw-rate	Type: uinteger Remaining bandwidth rate

Command Modes

- /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_excpt*]| [**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	Display the match-criterias along with class-map
name	policy-map name
pmap-name	Type: string Name of the Policy-map
__readonly__	
TABLE_pmap	Table of policy-map
pmap-name1	Type: string Name of the Policy-map
TABLE_cmap	Table of class-map
cmap-name	Type: string Name of the class-map
opt_any_or_all	Enter match-any or match-all **match-any value: 1** Logical-OR all match statements under this classmap **match-all value: 2** Logical-AND all match statements under this classmap

TABLE_match	Table of match statement
match_key	Type: uinteger Match key : XML output
access_grp	
acc_grp_name	Type: string
redirect	
opt_match_redirect	Match criteria for redirected packets **dhcp-snoop value: 3** Match redirected packets for dhcp **arp-inspect value: 6** Match redirected packets for arp-inspect
exception	

opt_match_excpt

Match criteria for exception packets

ip-option value: 1

Match exception packets for ip-options

ip-icmp-redirect value: 2

Match exception packets for ip-icmp-redirect

ip-icmp-unreachable value: 3

Match exception packets for ip-icmp-unreachable

urpf-failure value: 4

Match exception packets for urpf-failure

second-mrpf-failure value: 5

Match exception packets for second-mrpf-failure

ttl-failure value: 6

Match exception packets for ttl-failure

glean value: 7

Match exception packets for glean

ipv6-option value: 8

Match exception packets for ipv6-options

ipv6-icmp-redirect value: 9

Match exception packets for ipv6-icmp-redirect

ipv6-icmp-unreachable value: 10

Match exception packets for ipv6-icmp-unreachable

mtu-failure value: 11

Match exception packets for mtu-failure

multicast-rpf-failure value: 12

Match exception packets for multicast rpf-failure

multicast-directly-connected-sources value: 13

Match exception packets for multicast directly-connected-sources

ip-municast value: 14

Match exception packets for ip-municast

ipv6-municast value: 15

Match exception packets for ipv6-municast

fcoe-fib-miss value: 16

Match Exception Packets for FCoE FIB Miss

multicast-dest-miss value: 17

	Match Exception Packets for IP Multicast Destination Lookup Miss **multicast-sg-rpf-failure value: 18** Match exception packets for multicast sg rpf check failure
protocol	
opt_match_protocol	Match criteria for protocol packets **arp value: 1** IP ARP **mpls value: 13** Multi-protocol Label Switching **otv value: 17** OTV Overlay IS-IS frames **mpls_exp6 value: 18** MPLS Exp 6
TABLE_set_action	Table of set action
set_vld_flg	Type: uinteger Set valid flag
threshold	Type: long threshold count in bytes
level	Type: integer min: 1 max: 7 syslog severity level
cir	Type: long Committed Information Rate in bps/kbps/mbps/gbps
opt_kbps_mbps_gbps_pps_cir	Units **pps value: 8** Packets per second
percent	
cir-perc	Type: long Percent specification for cir

pir	Type: long Peak Information Rate in bps/kbps/mbps/gbps
opt_kbps_mbps_gbps_pps_pir	Units **bps value: 1** Bits per second **kbps value: 2** Kilo Bits per second **mbps value: 3** Mega Bits per second **gbps value: 4** Giga Bits per second **pps value: 8** Packets per second
percent1	
pir-perc	Type: long Percent specification for pir
bc	Type: long Committed Information size in bytes/kbytes/mbytes/packets/ms/us
opt_kbytes_mbytes_gbytes_bc	Units **packets value: 8** Packets
be	Type: long Peak Information size in bytes/kbytes/mbytes/packets/ms/us

opt_kbytes_mbytes_gbytes_be	Units **bytes value: 1** Bytes **kbytes value: 2** Kilo Bytes **mbytes value: 3** Mega Bytes **packets value: 8** Packets **ms value: 5** Milli seconds **us value: 6** Micro seconds
opt_drop_transmit_conform	Set the action **transmit value: 1** Transmit the packet
set-cos-transmit	
set-cos-val	Type: uinteger Conform action cos val
set-dscp-transmit	
set-dscp-val	Type: uinteger Conform action dscp val
set-prec-transmit	
set-prec-val	Type: uinteger Conform action prec val
opt_drop_transmit_exceed	Set the action **drop value: 2** Drop the packet **transmit value: 1** Transmit the packet
set	

dscp1	
dscp2	
table	
cir-markdown-map	
opt_drop_transmit_violate	Set the action **drop value: 2** Drop the packet
set1	
dscp3	
dscp4	
table1	
pir-markdown-map	
cos	
inner	
cos-val	Type: uinteger Set cos val
dscp	
tunnel	
dscp-val	Type: uinteger Set dscp val
precedence	
tunnel1	
prec-val	Type: uinteger Set prec val
policer_show_flags	Type: uinteger Policer show flags

Command Modes

- /exec

show policy-map type network-qos

show policy-map type network-qos [*pmap-name-nq*] [**__readonly__** *display-all desc xpmap-name xcmap-name pause timeout size-in-bytes xoff-bytes xon-bytes pfc-cos-list cc thresh-units min-thresh max-thresh drop-prob iod mtu*]

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
pmap-name-nq	Type: string antipattern: type | typ | ty | t length: 40 Policy-map name
network-qos	type network-qos
__readonly__	
display-all	Type: integer Display all network-qos policy-maps
xpmap-name	Type: string Policy-map name
desc	Type: string length: 200 Description string
xcmap-name	Type: string Class-map name
pause	Type: uinteger Pause value
timeout	Type: uinteger timeout value
size-in-bytes	Type: long Ingress buffer for the no-drop class in bytes

xoff-bytes	Type: long buffer limit at which the port pauses the peer
xon-bytes	Type: long buffer limit at which the port resumes the peer
pfc-cos-list	Type: integer-mrange List of class-of-service values
cc	Type: uinteger congestion control protocol
min-thresh	Type: long Minimum Threshold value
max-thresh	Type: long Maximum Threshold value
thresh-units	Type: uinteger Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
drop-prob	Type: uinteger Drop Probability at Maximum Threshold value
iod	Type: uinteger IOD value
mtu	Type: uinteger MTU value

Command Modes

- /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 *Not available in this release.*
__readonly__	
total	Type: integer Total resource
used	Type: integer Used resource
free	Type: integer Free resource
percentage_used	Type: integer Used resource in percentage

Command Modes

- /exec

show port-channel compatibility-parameters

show port-channel compatibility-parameters [**__readonly__** *parameter description*+]

Syntax Description

show	Show running system information
port-channel	Show port-channel information
compatibility-parameters	Show compatibility parameters
__readonly__	
parameter	Type: string Compatibity parameter
description	Type: string Parameter description

Command Modes

- /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	Specify a port-channel
if0	Type: interface-mrange
__readonly__	
TABLE_interface	Port-channel table
interface	Type: interface Port channel
mode	channel-group mode **on value: 2** Channel mode is on **active value: 5** Admin channel mode is active **passive value: 6** Admin channel mode is passive
last-membership-update	Last membership update **successful value: 1** Membership update succeeded **unsuccessful value: 2** Membership update failed
total-ports	Type: integer Total number of member ports

total-up-ports	Type: integer Total number of UP member ports
first_operational-port	Type: interface First operational port
TABLE_member	Member ports info
port	Type: interface Member port
port-status	Member port status **up value: 1** Port is up **down value: 2** Port is down **hot-standy value: 6** Hot standby port **suspended value: 5** Suspended port **individual value: 3** Indivial link **module-removed value: 7** Module removed
age-of-channel	Type: string Age of port channel
time-since-last-bundle	Type: string Time since last port bundled
last-bundled-member	Type: interface Last bundled member port
time-since-last-unbundle	Type: string Time since last port un-bundled
last-unbundled-member	Type: interface Last unbundled member port

protocol	Port channel protocol **lacp value: 1** LACP

Command Modes

- /exec

show port-channel load-balance

show port-channel load-balance {[**module** *module*]| **fex** {*fex-range*| **all**}} [**__readonly__** *sys-cfg module-cfg+ non-ip-val ipv4-val ipv6-val*]

Syntax Description

show	Show running system information
port-channel	Show port-channel information
load-balance	Show port-channel load balance
module	slot
module	Type: integer Specify a module number
fex	FEX devices *Not available in this release.*
fex-range	Type: integer min: 100 max: 199 FEX device range
all	Display all configured FEX port-channel LB
__readonly__	

sys-cfg	

system wide load balance configuraton

destination-mac value: 1

Destination MAC address

source-mac value: 2

Source MAC address

source-dest-mac value: 3

Source & Destination MAC address

destination-ip-vlan value: 4

Destination IP address and VLAN

destination-ip-gre value: 17

Destination IP GRE key

source-ip-vlan value: 5

Source IP address and VLAN

source-ip-gre value: 16

Source IP GRE key

source-dest-ip-vlan value: 6

Source & Destination IP address and VLAN

destination-port value: 7

Destination L4 port

source-port value: 8

Source L4 port

source-dest-port value: 9

Source & Destination L4 port

dest-ip-port value: 10

Destination IP address and L4 port

source-ip-port value: 11

Source IP address and L4 port

source-dest-ip-port value: 12

Source & Destination IP address and L4 port

dest-ip-port-vlan value: 13

Destination IP address, L4 port and VLAN

source-ip-port-vlan value: 14

Source IP address, L4 port and VLAN

source-dest-ip-port-vlan value: 15

Source & Destination IP address, L4 port and VLAN

source-dest-ip-gre value: 18

Source & Destination IP GRE key

module-cfg

per module load balance configuraton

destination-mac value: 1

Destination MAC address

source-mac value: 2

Source MAC address

source-dest-mac value: 3

Source & Destination MAC address

destination-ip-vlan value: 4

Destination IP address and VLAN

destination-ip-gre value: 17

Destination IP GRE key

source-ip-vlan value: 5

Source IP address and VLAN

source-ip-gre value: 16

Source IP GRE key

source-dest-ip-vlan value: 6

Source & Destination IP address and VLAN

destination-port value: 7

Destination L4 port

source-port value: 8

Source L4 port

source-dest-port value: 9

Source & Destination L4 port

dest-ip-port value: 10

Destination IP address and L4 port

source-ip-port value: 11

Source IP address and L4 port

source-dest-ip-port value: 12

Source & Destination IP address and L4 port

dest-ip-port-vlan value: 13

Destination IP address, L4 port and VLAN

source-ip-port-vlan value: 14

Source IP address, L4 port and VLAN

source-dest-ip-port-vlan value: 15

Source & Destination IP address, L4 port and VLAN

source-dest-ip-gre value: 18

Source & Destination IP GRE key

non-ip-val	

load balance setting for non-ip traffic

destination-mac value: 1

Destination MAC address

source-mac value: 2

Source MAC address

source-dest-mac value: 3

Source & Destination MAC address

destination-ip-vlan value: 4

Destination IP address and VLAN

destination-ip-gre value: 17

Destination IP GRE key

source-ip-vlan value: 5

Source IP address and VLAN

source-ip-gre value: 16

Source IP GRE key

source-dest-ip-vlan value: 6

Source & Destination IP address and VLAN

destination-port value: 7

Destination L4 port

source-port value: 8

Source L4 port

source-dest-port value: 9

Source & Destination L4 port

dest-ip-port value: 10

Destination IP address and L4 port

source-ip-port value: 11

Source IP address and L4 port

source-dest-ip-port value: 12

Source & Destination IP address and L4 port

dest-ip-port-vlan value: 13

Destination IP address, L4 port and VLAN

source-ip-port-vlan value: 14

Source IP address, L4 port and VLAN

source-dest-ip-port-vlan value: 15

Source & Destination IP address, L4 port and VLAN

source-dest-ip-gre value: 18

Source & Destination IP GRE key

ipv4-val	

load balance setting for ipv4 traffic

destination-mac value: 1

Destination MAC address

source-mac value: 2

Source MAC address

source-dest-mac value: 3

Source & Destination MAC address

destination-ip-vlan value: 4

Destination IP address and VLAN

destination-ip-gre value: 17

Destination IP GRE key

source-ip-vlan value: 5

Source IP address and VLAN

source-ip-gre value: 16

Source IP GRE key

source-dest-ip-vlan value: 6

Source & Destination IP address and VLAN

destination-port value: 7

Destination L4 port

source-port value: 8

Source L4 port

source-dest-port value: 9

Source & Destination L4 port

dest-ip-port value: 10

Destination IP address and L4 port

source-ip-port value: 11

Source IP address and L4 port

source-dest-ip-port value: 12

Source & Destination IP address and L4 port

dest-ip-port-vlan value: 13

Destination IP address, L4 port and VLAN

source-ip-port-vlan value: 14

Source IP address, L4 port and VLAN

source-dest-ip-port-vlan value: 15

Source & Destination IP address, L4 port and VLAN

source-dest-ip-gre value: 18

Source & Destination IP GRE key

ipv6-val	

load balance setting for ipv6 traffic

destination-mac value: 1

Destination MAC address

source-mac value: 2

Source MAC address

source-dest-mac value: 3

Source & Destination MAC address

destination-ip-vlan value: 4

Destination IP address and VLAN

destination-ip-gre value: 17

Destination IP GRE key

source-ip-vlan value: 5

Source IP address and VLAN

source-ip-gre value: 16

Source IP GRE key

source-dest-ip-vlan value: 6

Source & Destination IP address and VLAN

destination-port value: 7

Destination L4 port

source-port value: 8

Source L4 port

source-dest-port value: 9

Source & Destination L4 port

dest-ip-port value: 10

Destination IP address and L4 port

source-ip-port value: 11

Source IP address and L4 port

source-dest-ip-port value: 12

Source & Destination IP address and L4 port

dest-ip-port-vlan value: 13

Destination IP address, L4 port and VLAN

source-ip-port-vlan value: 14

Source IP address, L4 port and VLAN

source-dest-ip-port-vlan value: 15

Source & Destination IP address, L4 port and VLAN

source-dest-ip-gre value: 18

Source & Destination IP GRE key

Command Modes

- /exec

show port-channel load-balance forwarding-path

show port-channel load-balance forwarding-path {**interface** *ch-id*| **hgig**} {**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*]+ [**source-interface** *if-id*] [**__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-path	Packet forwarding information
interface	Specify a port-channel number
ch-id	Type: interface Port-Channel name
hgig	Higig hashing result (only with RTAG7)
vlan	VLAN of the ingress packet i.e. when available
vlan-id	Type: vlan
src-mac	Source MAC Address
src-mac	Type: ethernet Source MAC address
dst-mac	Destination MAC Address
dst-mac	Type: ethernet Destination MAC address
src-ip	Source IPv4 address
src-ip	Type: ipaddr Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
dst-ip	Type: ipaddr Destination IP address in format i.i.i.i

src-ipv6	Source IPv6 address
src-ipv6	Type: ipv6addr Source IPv6 address in format i:i:i:i:i:i
dst-ipv6	Destination IPv6 address
dst-ipv6	Type: ipv6addr Destination IPv6 address in format i:i:i:i:i:i
l4-src-port	Source L4 port
l4-src-port	Type: integer min: 0 max: 65535 Source L4 port
l4-dst-port	Destination l4 port
l4-dst-port	Type: integer min: 0 max: 65535 Destination L4 port
ethertype	Ethertype of the packet stream
ethertype	Type: hex
source-interface	Source interface - Required paramter
if-id	Type: interface Interface name
protocol	Protocol
prot	Type: integer min: 0 max: 65535
module	Module #
module	Type: integer
fex	FEX devices *Not available in this release.*
fex-range	Type: integer min: 100 max: 199 FEX device range
hgig-tgid	Higig #

tgid	Type: integer min: 1024 max: 1071
__readonly__	
loadbalance-algorithm	load balance algorithm
algorithm	Type: string load balance algorithm
outgoing-port-id	outgoing port-id
port	Type: string outgoing port-id

Command Modes

- /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 *Not available in this release.*
interface	Specify a port-channel interface
if0	Type: interface
__readonly__	
TABLE_channel	Port-channel table
chan-id	Type: integer Channel ID
port	Type: interface Member port
num_of_buckets	Type: integer Channel ID
rbh	Type: integer Channel ID

Command Modes

- /exec

show port-channel summary

show port-channel summary [**interface** *if0*] [**__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	Specify a port-channel
if0	Type: interface
__readonly__	
TABLE_channel	Port-channel table
group	Type: integer Channel group number
port-channel	Type: interface Port channel
type	Channel type **Auto value: 1** DCE channel auto mode **Edge value: 2** DCE channel edge mode **Core value: 3** DCE channel core mode **Off value: 0** DCE channel off mode **Eth value: 4** Ethernet channel type **FC value: 5** FC channel type **Unknown value: 0xFF** Unknown channel type

prtcl	Channel protocol **LACP value: 1** Channel protocol is LACP **NONE value: 2** No protocol is running
status	Type: _enum Channel status
layer	Channel layer info **S value: 2** Channel is L2 **R value: 3** Channel is L3
TABLE_member	Member table
port	Type: interface Member port
port-status	Member port status **H value: 6** Hot standby port **P value: 1** Port is up **D value: 2** Port is down **s value: 5** Suspended port **I value: 3** Individual link **r value: 7** Module removed

Command Modes

- /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__	
interface	Specify a port-channel
if0	Type: interface
TABLE_channel	Port-channel table
chanId	Type: integer Channel ID
port	Type: interface Member port
rx-ucst	Type: float Received unicast
tx-ucst	Type: float Transmitted unicast
rx-mcst	Type: float Received multicast
tx-mcst	Type: float Tranmitted multicast
rx-bcst	Type: float Received broadcast
tx-bcst	Type: float Transmitted broadcast

Command Modes

- /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
__readonly__	
total-channel-number-used	Type: integer Total used number of port-channels
used-range-low	Type: integer Used range low end value
used-range-hi	Type: integer Used range high end value
unused-range-low	Type: integer Un-used range low end value
unused-range-hi	Type: integer Un-used range high end value

Command Modes

- /exec

show port-security

show port-security [**__readonly__ TABLE_eth_port_sec_interfaces** *secure_port max_secure_addr current_addr security_violation security_action num_val num_elems cmdid_show_index port_state total_addr max_sys_limit*]

Syntax Description

show	Show running system information
port-security	Show secure port information
__readonly__	
TABLE_eth_port_sec_interfaces	Displays the secured interfaces
secure_port	Type: interface Interface Index
max_secure_addr	Type: uinteger Maximum number of secured MAC addresses
current_addr	Type: uinteger Number of secured MAC addresses
security_violation	Type: uinteger Number of security violations
security_action	Security Action Shutdown/Restrict/Protect **shutdown value: 0** **restrict value: 1** **protect value: 2**
num_val	Type: uinteger Number of Values
num_elems	Type: uinteger Number of Elements
cmdid_show_index	Type: uinteger Index for the Interfaces
port_state	Type: uinteger Port security enabled or disabled

total_addr	Type: uinteger Total number of secured MAC addresses
max_sys_limit	Type: uinteger Maximum allowed MACs excluding one per port

Command Modes

- /exec

show port-security address

show port-security address [**__readonly__ TABLE_eth_port_sec_mac_addrs** *vlan_id mac_addr type if_index remain_age num_elems cmd_addr_index total_addr max_sys_limit*]

Syntax Description

show	Show running system information
port-security	Show secure port information
address	Show secure address
__readonly__	
TABLE_eth_port_sec_mac_addrs	Displays the secured MAC addresses
if_index	Type: interface Interface index
vlan_id	Type: vlan vlan id
mac_addr	Type: string mac address
type	static/sticky/dyanmic MAC address **Static_Mac value: 0x02** Mac type: Static **Sticky_Mac value: 0x04** Mac type: Sticky **Dynamic_Mac value: 0x08** Mac type: Dynamic
remain_age	Type: uinteger Remaining age
num_elems	Type: uinteger Number of Elements
cmd_addr_index	Type: uinteger Index for the interface address

total_addr	Type: uinteger Total number of secured MAC addresses
max_sys_limit	Type: uinteger Maximum allowed MACs excluding one per port

Command Modes

- /exec

show port-security address blocked

show port-security address blocked [**__readonly__ TABLE_eth_port_sec_mac_addrs** *vlan_id mac_addr type if_index remain_age num_elems cmd_addr_index total_addr max_sys_limit*]

Syntax Description

show	Show running system information
port-security	Show secure port information
address	Show secure address
blocked	Port Security Blocked macs
__readonly__	
TABLE_eth_port_sec_mac_addrs	Displays the secured MAC addresses
if_index	Type: interface Interface index
vlan_id	Type: vlan vlan id
mac_addr	Type: string mac address
type	static/sticky/dyanmic MAC address **Static_Mac value: 0x02** Mac type: Static **Sticky_Mac value: 0x04** Mac type: Sticky **Dynamic_Mac value: 0x08** Mac type: Dynamic **Blocked_Mac value: 0x40** Mac type: Blocked
remain_age	Type: uinteger Remaining age
num_elems	Type: uinteger Number of Elements

cmd_addr_index	Type: uinteger Index for the interface address
total_addr	Type: uinteger Total number of secured MAC addresses
max_sys_limit	Type: uinteger Maximum allowed MACs excluding one per port

Command Modes

- /exec

show port-security address interface

show port-security address interface *interface-id* [**__readonly__ TABLE_eth_port_sec_mac_addrs** *vlan_id mac_addr type if_index remain_age num_elems total_addr max_sys_limit first*]

Syntax Description

show	Show running system information
port-security	Show secure port information
address	Show secure address
interface	Show secure interface
interface-id	Type: interface ethernet
__readonly__	
TABLE_eth_port_sec_mac_addrs	Displays the secured MAC addresses
if_index	Type: interface Interface index
vlan_id	Type: vlan vlan id
mac_addr	Type: string mac address
type	Type: integer static/sticky/dyanmic MAC address
if_index	Type: interface Interface index
remain_age	Type: uinteger Remaining age
num_elems	Type: uinteger Number of Elements
total_addr	Type: uinteger Total number of secured MAC addresses

max_sys_limit	Type: uinteger Maximum allowed MACs excluding one per port
first	Type: uinteger To identify the first entry

Command Modes

- /exec

show port-security address nvram

show port-security address nvram [**__readonly__ TABLE_eth_port_sec_mac_addrs** *vlan_id mac_addr type if_index remain_age num_elems cmd_addr_index total_addr max_sys_limit*]

Syntax Description

show	Show running system information
port-security	Show secure port information
address	Show secure address
nvram	Port Security NVRAM
__readonly__	
TABLE_eth_port_sec_mac_addrs	Displays the secured MAC addresses
if_index	Type: interface Interface index
vlan_id	Type: vlan vlan id
mac_addr	Type: string mac address
type	static/sticky/dyanmic MAC address **Static_Mac value: 0x02** Mac type: Static **Sticky_Mac value: 0x04** Mac type: Sticky **Dynamic_Mac value: 0x08** Mac type: Dynamic
remain_age	Type: uinteger Remaining age
num_elems	Type: uinteger Number of Elements
cmd_addr_index	Type: uinteger Index for the interface address

total_addr	Type: uinteger Total number of secured MAC addresses
max_sys_limit	Type: uinteger Maximum allowed MACs excluding one per port

Command Modes

- /exec

show port-security detail interface

show port-security detail interface [**__readonly__ TABLE_eth_port_sec_intf_detail** *if_index port_security port_status violation_mode aging_time aging_type max_mac_addr total_sec_addrs trap_count addr_aging_enable secure_last_mac_addr sticky_enable secure_last_mac_addr_vlan_id*]

Syntax Description

show	Show running system information
port-security	Show secure port information
detail	Show detailed information about secure interface
interface	Show secure interface
TABLE_eth_port_sec_intf_detail	Displays the secured interface details
__readonly__	
if_index	Type: interface Interface index
port_security	Port Security is Enabled/Disabled **enabled value: 0** **disabled value: 1**
port_status	Secure Up/Down **secure-up value: 1** **secure-down value: 2** **shutdown value: 0**
violation_mode	Shutdown/Restrict/Protect **shutdown value: 0** **restrict value: 1** **protect value: 2**
aging_time	Type: integer Aging time in minutes

aging_type	Absolute/Inactivity **absolute value: 0** **inactivity value: 1**
max_mac_addr	Type: integer Maximum number of MAC addresses that can be secured
total_sec_addrs	Type: uinteger Total number of secured MAC addresses
trap_count	Type: uinteger Trap Count
addr_aging_enable	Type: integer Specifies whether address aging is enabled
secure_last_mac_addr	Type: string Secured last mac address
sticky_enable	Type: integer Specifies sticky feature is enabled on the port
secure_last_mac_addr_vlan_id	Type: vlan Indicates the VLAN where the last MAC address seen on this interface

Command Modes

- /exec

show port-security interface

show port-security interface *interface-id* [**__readonly__** *port_security port_status violation_mode aging_time aging_type max_mac_addr total_sec_addrs conf_num_addrs num_sticky_addrs trap_count*]

Syntax Description

show	Show running system information
port-security	Show secure port information
interface	Show secure interface
interface-id	Type: interface ethernet
__readonly__	
port_security	Port Security is Enabled/Disabled **enabled value: 0** **disabled value: 1**
port_status	Secure Up/Down **secure-up value: 1** **secure-down value: 2**
violation_mode	Shutdown/Restrict/Protect **shutdown value: 0** **restrict value: 1** **protect value: 2**
aging_time	Type: uinteger Aging time in minutes
aging_type	Absolute/Inactivity **absolute value: 0** **inactivity value: 1**

max_mac_addr	Type: uinteger Configured Maximum
total_sec_addrs	Type: uinteger Total number of secured MAC addresses
conf_num_addrs	Type: uinteger Number of configured MAC addresses
num_sticky_addrs	Type: uinteger Number of sticky MAC addresses
trap_count	Type: uinteger Trap Count

Command Modes

- /exec

show port-security multivlan address

show port-security multivlan address [**__readonly__ TABLE_eth_port_sec_multi_vlan** *if_index vlan_id max_sec_mac_addr_count cur_sec_mac_addr_count*]

Syntax Description

show	Show running system information
port-security	Show secure port information
address	Show secure address
multivlan	Show port security information for a particular vlan in a multivlan port
__readonly__	
TABLE_eth_port_sec_multi_vlan	Displays the secured MAC addresses
if_index	Type: interface Interface index
vlan_id	Type: vlan vlan id
max_sec_mac_addr_count	Type: uinteger The maximum number of MAC addresses to be secured in the vlan
cur_sec_mac_addr_count	Type: uinteger Current number of MAC addresses secured in the VLAN

Command Modes

- /exec

show port-security secure address

show port-security secure address [**__readonly__ TABLE_eth_port_sec_if_vlan_secure_mac_addr** *if_index mac_addr vlan_id mac_addr_type remain_age*]

Syntax Description

show	Show running system information
port-security	Show secure port information
secure	Show detail information about secure address
address	Show secure address
__readonly__	
TABLE_eth_port_sec_if_vlan_secure_mac_addr	Displays the secured MAC addresses
if_index	Type: interface Interface index
mac_addr	Type: string mac address
vlan_id	Type: vlan vlan id
mac_addr_type	Type: integer static/sticky/ MAC address
remain_age	Type: uinteger Remaining age

Command Modes

- /exec

show port-security state

show port-security state [**__readonly__** *status*]

Syntax Description

show	Show running system information
port-security	Port security related command
state	port security state
__readonly__	
status	show port-security **enabled value: 0** **disabled value: 1**

Command Modes

- /exec

show port-security traps enable

show port-security traps enable [**__readonly__** *snmp_traps_enable*]

Syntax Description

show	Show running system information
port-security	Show secure port information
address	Show secure address
traps	Enable SNMP traps
enable	enable
__readonly__	
snmp_traps_enable	Type: uinteger SNMP traps enable/disable

Command Modes

- /exec

show privilege

show privilege

Syntax Description

show	Show running system information
privilege	Display privilege information

Command Modes

- /exec

show processes (launcher)

show processes {**version**| **threads**} [*comp-string*] [**__readonly__ TABLE_component** *component-name version buildinfo sourceversion*]

Syntax Description

show	Show running system information
processes	Display process information
version	Display system release information
threads	Threads Info
comp-string	Type: string Component name for detailed information
__readonly__	

Command Modes

- /exec

show processes (process)

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__	
TABLE_processes	all process information
pid	Type: string process id
state	Type: string process state
pc	Type: string pc register
start_cnt	Type: uinteger TBD
tty	Type: string TBD
p_type	Type: string process type
process	Type: string process name

Command Modes

- /exec

show processes cpu

show processes cpu [sort] [**__readonly__** [**TABLE_process_cpu** *pid runtime invoked usecs onesec process*] [*user_percent*] [*kernel_percent*] [*idle_percent*]]

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
sort	Show processes CPU Info (Sorted by Cpu Util with time base)
__readonly__	
TABLE_process_cpu	all process memory
pid	Type: integer process id
runtime	Type: uinteger Runtime
invoked	Type: uinteger Invoked
usecs	Type: uinteger usecs
onesec	Type: float fivesec
process	Type: string name of the process
user_percent	Type: float user
kernel_percent	Type: float kernel
idle_percent	Type: float idle

Command Modes

- /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 Modes

- /exec

show processes cpu module

show processes cpu module *i0* [**__readonly__** [**TABLE_process_cpu** *pid runtime invoked usecs onesec process*] [*user_percent*] [*kernel_percent*] [*idle_percent*]]

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
module	processes CPU Info
i0	Type: integer min: 1 max: 18 module number
__readonly__	
TABLE_process_cpu	all process memory
pid	Type: integer process id
runtime	Type: integer Runtime
invoked	Type: integer Invoked
usecs	Type: integer usecs
onesec	Type: float onesec
process	Type: string name of the process
user_percent	Type: float user
kernel_percent	Type: float kernel

idle_percent	Type: float idle

Command Modes

- /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
__readonly__	
TABLE_processes_log	all processes log
vdc	Type: integer vdc
process	Type: string vdc process name
pid	Type: integer pid
normal_exit	Type: string process exit
stack	Type: string stack
core	Type: string core
create_time	Type: string log create time

Command Modes

- /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__	
line_in_log_detail	
line_in_file	Type: string each line

Command Modes

- /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
i0	Type: integer min: 1 max: 2147483647 pid of the process
__readonly__	
TABLE_line_in_log_pid	
line_in_file	Type: string each line

Command Modes

- /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	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__	
vdc	Type: integer vdc process name
process	Type: string vdc process name
pid	Type: integer process id
normal_exit	Type: string process exit
stack	Type: string stack
core	Type: string core
create_time	Type: string log create time

Command Modes

- /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
__readonly__	
TABLE_process_memory	all process memory
mem_pid	Type: integer process id
mem_alloc	Type: integer allocated memory
mem_limit	Type: integer memory limit
mem_used	Type: integer memory used
stack_base_ptr	Type: string stack and base pointer
process	Type: string name of the process

Command Modes

- /exec

show processes memory clis

show processes memory clis [**shared**| **private**]

Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
clis	
shared	Display CLIS shared memory information
private	Display CLIS private memory information

Command Modes

- /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	Display shared memory in bytes instead of default kbytes
dynamic	Display details of dynamic shared memory segments
__readonly__	
TABLE_process_tag	
process-tag-out	Type: string
process-memory-share-dynamic-component-str	Type: string

process-memory-share-dynamic-shared-memory-str	Type: string
process-memory-share-dynamic-current-size-str	Type: string
process-memory-share-dynamic-max-size-str	Type: string
process-memory-share-dynamic-used-str	Type: string
process-memory-share-component-str	Type: string
process-memory-share-shared-memory-str	Type: string
process-memory-share-size-str	Type: string
process-memory-share-used-str	Type: string
process-memory-share-available-str	Type: string
process-memory-share-ref-str	Type: string
process-memory-share-byte-set-address-str	Type: string
process-memory-share-byte-set-count-str	Type: string
process-memory-share-address-str	Type: string
process-memory-share-kbytes-1-str	Type: string
process-memory-share-kbytes-2-str	Type: string
process-memory-share-kbytes-3-str	Type: string
process-memory-share-count-str	Type: string
TABLE_SMMITEM	
process-memory-share-smr-name	Type: string
TABLE_SHOWPROC	
process-memory-share-table-showproc-key	Type: string
TABLE_SHOWONEDYNAMIC	
process-memory-share-component	Type: string
process-memory-share-shared-memory	Type: integer
process-memory-share-current-size	Type: integer
process-memory-share-max-size	Type: integer
process-memory-share-used	Type: integer

TABLE_ONEITEM	
process-memory-share-proc-smr-name	Type: string
process-memory-share-smr-addr	Type: string
process-memory-share-smr-size	Type: integer
process-memory-share-smr-star-char	Type: string
process-memory-share-smr-empty-char	Type: string
process-memory-share-smr-used	Type: integer
process-memory-share-smr-avail	Type: integer
process-memory-share-smr-ref-count	Type: integer
TABLE_ONEITEMDYNAMIC	
process-memory-share-dynamic-smr-name	Type: string
process-memory-share-dynamic-smr-addr	Type: string
process-memory-share-dynamic-smr-size	Type: integer
process-memory-share-dynamic-plus-char	Type: string
process-memory-share-max-mem-size-str	Type: string
process-memory-share-dynamic-smr-used	Type: integer
process-memory-share-dynamic-smr-avail	Type: integer
process-memory-share-dynamic-smr-ref-count	Type: integer
process-memory-share-region-smr-name	Type: string
process-memory-share-total-shm-size	Type: integer
process-memory-share-total-shm-used	Type: integer
process-memory-share-total-shm-avail	Type: integer

Command Modes

- /exec

show processes vdc

show processes vdc *e-vdc2*

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
e-vdc2	Type: userdef Enter Virtual Device Context <vdc-id>

Command Modes

- /exec

show processes vdc cpu

show processes vdc *e-vdc2* **cpu**

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
e-vdc2	Type: userdef Enter Virtual Device Context <vdc-id>
cpu	Show processes CPU Info

Command Modes

- /exec

show processes vdc log

show processes vdc *e-vdc2* **log**

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
e-vdc2	Type: userdef Enter Virtual Device Context <vdc-id>
log	Show information about process logs

Command Modes

- /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
e-vdc2	Type: userdef Enter Virtual Device Context <vdc-id>
log	Show information about process logs
details	Show detail of all logs with stack

Command Modes

- /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
e-vdc2	Type: userdef Enter Virtual Device Context <vdc-id>
log	Show information about process logs
pid	Show detail log info about a specific process
i1	Type: integer min: 1 max: 2147483647 pid of the process

Command Modes

- /exec

show processes vdc memory

show processes vdc *e-vdc2* **memory**

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
e-vdc2	Type: userdef Enter Virtual Device Context <vdc-id>
memory	Show processes Memory Info

Command Modes

- /exec

Q Show Commands

- show qos dcbxp incompatibility interface, page 2434
- show qos dcbxp info, page 2436
- show qos shared-policer, page 2438
- show queuing, page 2441

show qos dcbxp incompatibility interface

show qos dcbxp incompatibility interface *iface-num* [**__readonly__** *pfc mtu lpg rpg bw lfcoe rfcoe liscsi riscsi*]

Syntax Description

show	Show running system information
qos	qos
dcbxp	DCBXP
incompatibility	incompatibility information
interface	incompatibility info for interface
iface-num	Type: interface Interface
__readonly__	
pfc	Type: string pfc
mtu	Type: uinteger MTU Value
lpg	Type: string Local Priority Grouping
rpg	Type: string Remote Priority Grouping
bw	Type: string CIN: bandwidth/priority
lfcoe	Type: integer local fcoe
rfcoe	Type: integer remote fcoe
liscsi	Type: integer local iscsi

riscsi	Type: integer remote iscsi

Command Modes

- /exec

show qos dcbxp info

show qos dcbxp info [**__readonly__** *intf pfcr pfcc pgr pgc mtur mtuc fcoer fcoec iscsir iscsic*]

Syntax Description

show	Show running system information
qos	qos
dcbxp	DCBXP
info	information
__readonly__	
intf	Type: string Interface
pfcr	Type: integer pfc recvd
pfcc	Type: integer pfc compatible
pgr	Type: integer pg received
pgc	Type: integer pg compatible
mtur	Type: integer mtu received
mtuc	Type: integer mtu compatible
fcoer	Type: integer fcoe received
fcoec	Type: integer fcoe compatible
iscsir	Type: integer iscsi received

iscsic	Type: integer iscsi compatible

Command Modes

- /exec

show qos shared-policer

show qos shared-policer [**type qos1**] [*policer-name*] [**__readonly__** [**TABLE_policer** *policer-name2* [*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_action** *action-key* [*cnf-act*] [*exc-act*] [*vio-act*] [*set-type*] [*enum-spec*] [*set-val*] [*tmap-from*] [*tmap-to*] [*tmap-name*]]]]

Syntax Description

show	Show running system information
qos	Show qos configurations
shared-policer	Shared policer *Not available in this release.*
type	Type of shared policer
qos1	type qos
policer-name	Type: string length: 40 Shared policer name
__readonly__	
TABLE_policer	all police xml sessions
policer-name2	Type: string Policer Name
TABLE_action	all police actions xml sessions
action-key	Type: uinteger Count
cir-spec	Type: uinteger min: 0 max: 1 Is CIR keyword specified
bc-spec	Type: uinteger min: 0 max: 1 Is Committed Burst keyword specified
be-spec	Type: uinteger min: 0 max: 1 Is Extended Burst keyword specified

cir-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us, pps
pir-rate-units	Type: uinteger Units of rate - bps, kbps, mbps, gbps, ms, us, pps
bc-size-units	Type: uinteger Units of size - pkts/bytes/kbytes/mbytes/ms/us/perc
be-size-units	Type: uinteger Units of size - pkts/bytes/kbytes/mbytes/ms/us/perc
tmap-from	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5)
tmap-to	**cos value: 1** table map of cos type (1) **dscp value: 2** table map of dscp type (2) **prec value: 3** table map of prec type (3) **qos-grp value: 5** table map of qos-grp type (4) **dis-cl value: 4** table map of discard-class type (5)
tmap-name	Type: string Table map name

cir	Type: long Committed Information Rate
bc	Type: long Committed Burst Size
pir	Type: long Peak Information Rate
be	Type: long Extended Burst Size
cnf-col-cmap	Type: string Conforming color class-map name
exc-col-cmap	Type: string Exceeding color class-map name
enum-spec	Type: uinteger min: 0 max: 1 Is DSCP or PREC enum value specified
cnf-act	Type: uinteger Conform action (Police)
exc-act	Type: uinteger Exceed action (Police)
vio-act	Type: uinteger Violate action (Police)
set-type	Type: uinteger Type of set in police action
set-val	Type: uinteger Value of set type in police action

Command Modes

- /exec

show queuing

show queuing [**interface** *if_name*] **[summary]** [**module** *module*] [**__readonly__** [**TABLE_queuing_interface** *if_name_str* [**TABLE_qosgrp_cfg** *qosgrp* [*bandwidth*] [*priority*] [*shape-min*] [*shape-max*] [*shape-units*]] [**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*] [*tx-ppp rx-ppp* [**TABLE_pfc_stats** *cos* [*pfc-qosgrp*] *tx-pause-state tx-pause-count rx-pause-state rx-pause-count*]]]]

Syntax Description

show	commands to display
queuing	Queuing related information
interface	Interface for displaying queuing config
if_name	Type: interface interface name
module	Slot/module
module	Type: integer Slot/module number
summary	summary
__readonly__	
if_name_str	Type: string interface name
TABLE_queuing_interface	Queuing information of an interface
TABLE_qosgrp_cfg	Qos-group configuration
qosgrp	Type: uinteger Qos-group value
bandwidth	Type: uinteger WRR bandwidth
priority	Type: uinteger Priority level
shape-min	Type: long Minimum shape rate

shape-max	Type: long Maximum shape rate
shape-units	Type: string Shape units
TABLE_qosgrp_egress_stats	Qos-group egress statistics
eq-qosgrp	Type: uinteger Qos-group value
TABLE_qosgrp_egress_stats_entry	Qos-group egress statistics entry
eq-stat-type	Type: string Qos-group egress statistics type
eq-stat-units	Type: string Qos-group egress statistics units
eq-uc-stat-value	Type: long Qos-group egress statstics value for unicast
eq-oobfc-uc-stat-value	Type: long Qos-group egress statstics value for OOBFC unicast
eq-mc-stat-value	Type: long Qos-group egress statstics value for multicast
TABLE_egress_stats_entry	Egress port statistics
ep-stat-type	Type: string Egress port statistics type
ep-stat-units	Type: string Egress port statistics units
ep-stat-value	Type: long Egress port statistics value
TABLE_pfc_stats	Per COS PFC statistics
cos	Type: uinteger PFC COS
pfc-qosgrp	Type: uinteger Qos-group of the given COS

tx-ppp	Type: long Number of PPP frames transmitted
rx-ppp	Type: long Number of PPP frames transmitted
tx-pause-state	Type: string Tx PFC state of the given COS
tx-pause-count	Type: long Number of PFC frames transimitted for the given COS
rx-pause-state	Type: string Rx PFC state of the given COS
rx-pause-count	Type: long Number of PFC frames received for the given COS

Command Modes

- /exec

R Show Commands

- show radius-server (radius_tree), page 2450
- show radius-server (radius_tree), page 2451
- show radius-server directed-request, page 2452
- show radius-server groups, page 2453
- show radius-server sorted, page 2455
- show radius-server statistics, page 2457
- show redundancy status, page 2459
- show regexp, page 2461
- show resource, page 2462
- show rip, page 2463
- show rip interface, page 2465
- show rip memory, page 2468
- show rip neighbor, page 2470
- show rip route, page 2473
- show rip statistics, page 2476
- show rmon, page 2478
- show role, page 2480
- show role feature-group, page 2482
- show role feature, page 2483
- show rollback log, page 2484
- show rollback status, page 2485
- show route-map, page 2486
- show route-map pbr-statistics, page 2487
- show route, page 2488

- show routing-context, page 2490
- show routing-privilege, page 2491
- show routing clients, page 2492
- show routing hash, page 2495
- show routing hidden-nh, page 2501
- show routing ip ipv4 multicast lisp encap __readonly__, page 2503
- show routing ipv6 clients, page 2504
- show routing ipv6 hash, page 2509
- show routing ipv6 hidden-nh, page 2512
- show routing ipv6 memory estimate, page 2514
- show routing ipv6 memory statistics, page 2516
- show routing ipv6 nexthop info, page 2518
- show routing ipv6 nhlfe, page 2519
- show routing ipv6 recursive-next-hop, page 2521
- show routing memory estimate, page 2523
- show routing memory statistics, page 2525
- show routing multicast, page 2527
- show routing multicast clients, page 2530
- show routing multicast mdt encapsulation, page 2533
- show routing multicast memory estimate, page 2535
- show routing nhlfe, page 2538
- show routing recursive-next-hop, page 2540
- show routing unresolved-next-hop, page 2542
- show running-config, page 2544
- show running-config aaa, page 2545
- show running-config acllog, page 2546
- show running-config aclmgr (aclmgr), page 2547
- show running-config aclmgr (aclmgr), page 2548
- show running-config adjmgr, page 2549
- show running-config all, page 2550
- show running-config arp, page 2551
- show running-config bfd, page 2552
- show running-config bgp, page 2553

- show running-config bloggerd, page 2554
- show running-config callhome, page 2555
- show running-config cdp, page 2556
- show running-config cert-enroll, page 2557
- show running-config cfs, page 2558
- show running-config clock_manager, page 2559
- show running-config copp, page 2560
- show running-config dhcp, page 2561
- show running-config diagnostic, page 2562
- show running-config diff, page 2563
- show running-config eem, page 2564
- show running-config eigrp, page 2565
- show running-config eltm, page 2566
- show running-config exclude, page 2567
- show running-config exclude fabricpath, page 2571
- show running-config exclude fex, page 2572
- show running-config explicit, page 2573
- show running-config fabricpath, page 2574
- show running-config fabricpath topology, page 2575
- show running-config fex, page 2576
- show running-config glbp, page 2577
- show running-config hsrp, page 2578
- show running-config icmpv6, page 2579
- show running-config igmp, page 2580
- show running-config interface (clic), page 2581
- show running-config interface (clic), page 2582
- show running-config interface defaults, page 2583
- show running-config interface explicit, page 2584
- show running-config ip, page 2585
- show running-config ipqos (qosmgr), page 2586
- show running-config ipqos (qosmgr), page 2587
- show running-config ipv6, page 2588
- show running-config isis, page 2589

- show running-config l2pt, page 2590
- show running-config l3vm, page 2591
- show running-config ldap, page 2592
- show running-config license, page 2593
- show running-config lldp, page 2594
- show running-config monitor, page 2595
- show running-config msdp, page 2596
- show running-config ntp, page 2597
- show running-config nv overlay, page 2598
- show running-config ospf, page 2599
- show running-config ospfv3, page 2600
- show running-config pim, page 2601
- show running-config pim6, page 2602
- show running-config port-security, page 2603
- show running-config radius, page 2604
- show running-config res_mgr, page 2605
- show running-config rip, page 2606
- show running-config routing multicast, page 2607
- show running-config rpm, page 2608
- show running-config rsvp, page 2609
- show running-config section, page 2610
- show running-config security, page 2611
- show running-config snmp, page 2612
- show running-config spanning-tree, page 2613
- show running-config tacacs+, page 2614
- show running-config track, page 2615
- show running-config udld, page 2616
- show running-config vdc-all, page 2617
- show running-config vdc, page 2618
- show running-config virtual-service, page 2619
- show running-config vlan (clis), page 2620
- show running-config vlan (clis), page 2621
- show running-config vlan (vlan_mgr_cli), page 2622

- show running-config vlan_mgr, page 2623
- show running-config vpc, page 2624
- show running-config vrf, page 2625
- show running-config vrf default, page 2626
- show running-config vrrp, page 2627
- show running-config vshd, page 2628
- show running-config vtp, page 2629

show radius-server (radius_tree)

show radius-server *host0* [**__readonly__** *host1 auth_port acct_port shared_key idle_time test_username test_password*]

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
host0	Type: string DNS name or IP address
__readonly__	
host1	Type: string DNS name or IP address
auth_port	Type: integer RADIUS server's port for authentication
acct_port	Type: integer RADIUS server's port for accounting
shared_key	Type: string RADIUS shared secret
test_username	Type: string User name in test packets
test_password	Type: string User password in test packets
idle_time	Type: integer Time interval for monitoring the server

Command Modes

- /exec

show radius-server (radius_tree)

show radius-server [**__readonly__** *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
__readonly__	
host0	Type: string DNS name or IP address
auth_port	Type: integer RADIUS server's port for authentication
acct_port	Type: integer RADIUS server's port for accounting
shared_key	Type: string RADIUS shared secret
test_username	Type: string User name in test packets
test_password	Type: string User password in test packets
idle_time	Type: integer Time interval for monitoring the server

Command Modes

- /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__	
radius_directedRequest_status	status of radius-server directed request **disabled value: 0** **enabled value: 1**

Command Modes

- /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
s0	Type: string length: 127 RADIUS server group name
__readonly__	
num_of_groups	Type: integer number of groups
TABLE_group	
group_name	Type: string name of the group
TABLE_server	
server_ip	Type: string DNS name or IP address
auth_port	Type: integer radius server authentication port
acct_port	Type: integer radius server accounting port
dead_time	Type: integer Time interval for which the server is marked as dead before sendinga test command
vrf_name	Type: vrf name of the vrf
source_interface	Type: interface Interface Description

Command Modes

- /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
__readonly__	
global_secretKey	Type: string Global shared secret
global_timeout	Type: integer Global timeout for tacacs
retransmissionCount	Type: integer Retransmittion count when there is no server response
global_deadtime	Type: integer Global deadtime
global_source_intf	Type: string Radius global source interface
global_idle_time	Type: integer Radius global idle-time for server monitoring
global_testUsername	Type: string Username of global test parameters
global_testPassword	Type: string Password of global test parameters
server_count	Type: integer Total number of radius servers configured
TABLE_server	
server_ip	Type: string Ip address of the server

auth_port	Type: integer Authentication port used for this server
acct_port	Type: integer Accounting Port used for this server
secretKey	Type: string Shared secret between the server and the tacacs client
timeout	Type: integer Timeout for this tacacs server
retries	Type: integer Retry count for individual servers

Command Modes

- /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
host0	Type: string DNS name or IP address
__readonly__	
server_state	Show state of server **alive value: 2** **dead value: 1** **not monitored value: 3**
clock_time	Type: string Show clock time in terms of hours, minutes and seconds
monitoring_statistics	Monitoring Statistics
time_in_pstate	Type: string Time in previous state
ndead	Type: uinteger Number of times dead
tt_in_dstate	Type: string Total time in dead state
auth_statistics	Authentication Statistics
acct_statistics	Accounting Statistics

auth_failed_transactions	Type: uinteger Authentication: Failed transactions
auth_succ_transactions	Type: uinteger Authentication: Successful transactions
auth_req_sent	Type: uinteger Authentication: Requests sent
auth_req_timedout	Type: uinteger Authentication: Requests timedout
auth_resp_no_match	Type: uinteger Authentication: Responses with no matching requests
auth_resp_not_processed	Type: uinteger Authentication: Responses not processed
auth_resp_error	Type: uinteger Authentication: Responses containing errors
acct_failed_transactions	Type: uinteger Accounting: Failed transactions
acct_succ_transactions	Type: uinteger Accounting: Successful transactions
acct_req_sent	Type: uinteger Accounting: Requests sent
acct_req_timedout	Type: uinteger Accounting: Requests timedout
acct_resp_no_match	Type: uinteger Accounting: Responses with no matching requests
acct_resp_not_processed	Type: uinteger Accounting: Responses not processed
acct_resp_error	Type: uinteger Accounting: Responses containing errors

Command Modes

- /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

redundancy	Show system redundancy status
status	Current redundancy status
__readonly__	
rmode_admin	Type: string
rmode_opr	Type: string
this_sup	Type: string
this_sup_rd_st	Type: string
this_sup_sup_st	Type: string
this_sup_int_st	Type: string
oth_sup	Type: string
oth_sup_rd_st	Type: string
oth_sup_sup_st	Type: string
oth_sup_int_st	Type: string
sys_strt_time	Type: string
sys_uptm_days	Type: integer
sys_uptm_hrs	Type: integer
sys_uptm_mins	Type: integer
sys_uptm_secs	Type: integer
kern_uptm_days	Type: integer
kern_uptm_hrs	Type: integer
kern_uptm_mins	Type: integer

kern_uptm_secs	Type: integer
asup_uptm_days	Type: integer
asup_uptm_hrs	Type: integer
asup_uptm_mins	Type: integer
asup_uptm_secs	Type: integer

Command Modes

- /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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
ipv4	Display BGP information for IPv4 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
regexp-str	Type: string Regular expression to match the AS paths

Command Modes

- /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
res-mgr-res-known-name	Type: string Resource name
hidden-too	Also show hidden resources
with-flags	Also show resource flags
__readonly__	Read Only
TABLE_vdc_resource_local	
res_name	Type: string Resource Name
min	Type: uinteger Resource min configuration
max	Type: uinteger Resource max configuration
used	Type: uinteger Resource current usage for this VDC
unused	Type: uinteger Resource reserved for this VDC but currently not used
free	Type: uinteger Resource current free for this VDC

Command Modes

- /exec

show rip

show {**ip**} **rip** [**instance** *inst*] [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_inst** *inst-name* **TABLE_vrf** *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
ip	Display IP information
rip	Display RIP routing protocol status
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Process ID
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_inst	
inst-name	Type: string
TABLE_vrf	
vrf	Type: vrf
port	Type: integer

mcast-grp	Type: ipaddr
admin-dist	Type: integer
update-tmr	Type: integer
expire-tmr	Type: integer
garbage-tmr	Type: integer
def-metric	Type: integer
max-paths	Type: integer
def-rt-distrib	Type: bool
def-distrib-always	Type: bool
process-disabled	Type: bool
out-of-mem	Type: bool
TABLE_afi	
af	**ipv4 value: 1** **ipv6 value: 2**
TABLE_interface	
if-name	Type: interface
TABLE_redistrib	
redistributing	Type: bool
TABLE_clients	
pibname	Type: string
policy	Type: string

Command Modes

- /exec

show rip interface

show {**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
ip	Display IP information
rip	Display RIP routing protocol status
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Process ID
interface	RIP interface
interface	Type: interface RIP interface
detail	Detailed information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	

TABLE_inst	
inst-name	Type: string
TABLE_vrf	
vrf	Type: vrf
TABLE_inter	
if-name	Type: interface
if-status	Type: string
protocol-up	Type: bool
local-only	Type: bool
no-addr-conf	Type: bool
if-addr	Type: ipaddr
if-mask	Type: integer
if-metric	Type: integer
poison-reverse	Type: bool
if-passive	Type: bool
route-dist-filter	Type: bool
in-policy	Type: string
out-policy	Type: string
TABLE_auth	
auth-ena	Type: bool
auth-type	**md5 value: 1** **text value: 2** **none value: 3**
auth-keychain	Type: string
TABLE_detail	
import-routes	Type: integer
periodic-updates	Type: integer

trigger-updates	Type: integer
out-mcast-request	Type: integer
out-ucast-update	Type: integer
out-ucast-request	Type: integer
in-mcast-update	Type: integer
in-mcast-request	Type: integer
in-ucast-update	Type: integer
in-ucast-request	Type: integer
bad-pkt	Type: integer
bad-route	Type: integer

Command Modes

- /exec

show rip memory

show {**ip**} **rip** [**instance** *inst*] **memory** [**__readonly__ TABLE_inst** *inst-name type size count hwm slab overhead total* **TABLE_total** *total-overhead total-total*]

Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP status and configuration
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Process ID
memory	Display RIP memory usage information
__readonly__	
TABLE_inst	
inst-name	Type: string
type	Type: string
size	Type: integer
count	Type: integer
hwm	Type: integer
slab	Type: integer
overhead	Type: integer
total	Type: integer
TABLE_total	
total-overhead	Type: integer
total-total	Type: integer

Command Modes

- /exec

show rip neighbor

show {**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 last-response-rcvd last-request-sent last-request-rcvd last-response-sent-state last-response-rcvd-state last-request-sent-state last-request-rcvd-state in-bad-packets in-bad-routes*]

Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP status and configuration
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Process ID
neighbor	RIP neighbor
interface	Type: interface RIP interface
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_inst	
inst-name	Type: string

TABLE_vrf	
vrf	Type: vrf
numberof-adj	Type: integer
dead-timer-seconds	Type: integer
TABLE_adj	
adj-addr	Type: ipaddr
if-name	Type: interface
last-response-sent-state	**dead value: 1** **never value: 2** **running value: 3**
last-response-sent	Type: duration
last-response-rcvd-state	**dead value: 1** **never value: 2** **running value: 3**
last-response-rcvd	Type: duration
last-request-sent-state	**dead value: 1** **never value: 2** **running value: 3**
last-request-sent	Type: duration
last-request-rcvd-state	**dead value: 1** **never value: 2** **running value: 3**
last-request-rcvd	Type: duration
in-bad-packets	Type: integer

in-bad-routes	Type: integer

Command Modes

- /exec

show rip route

show {**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_route** *best-route rt-prefix rt-mask rt-numnh* **TABLE_nexthop** *nh-direct nh-redistrib nh-addr nh-interface nh-metric nh-tag nh-state nh-state-timer*] [**TABLE_summary** *is-summary total-num-rts total-best-rts total-paths* **TABLE_rtspermask** *mask-length rts-per-mask*]]

Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP routing protocol status
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Process ID
route	RIP routes
summary	route counts
ipv6-prefix	Type: ipv6prefix Exact prefix
ip-prefix	Type: ipprefix Exact prefix
longer-prefixes	exact match and more specific routes
shorter-prefixes	exact match and less specific routes
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name

vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_inst	
inst-name	Type: string
TABLE_vrf	
vrf	Type: vrf
TABLE_route	
best-route	Type: bool
rt-prefix	Type: ipaddr
rt-mask	Type: integer
rt-numnh	Type: integer
TABLE_nexthop	
nh-direct	Type: bool
nh-redistrib	Type: bool
nh-addr	Type: ipaddr
nh-interface	Type: interface
nh-metric	Type: integer
nh-tag	Type: integer
nh-state	Type: string
nh-state-timer	Type: string
TABLE_summary	
is-summary	Type: bool
total-num-rts	Type: integer
total-best-rts	Type: integer
total-paths	Type: integer
TABLE_rtspermask	

mask-length	Type: integer
rts-per-mask	Type: integer

Command Modes

- /exec

show rip statistics

show {**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
ip	Display IP information
rip	Display RIP status and configuration
instance	Process ID
inst	Type: string pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]* length: 20 Process ID
statistics	RIP statistics
interface	Type: interface RIP interface
*	RIP statistics for all interfaces
__readonly__	
TABLE_inst	
inst-name	Type: string
TABLE_interface	
if-name	Type: interface
periodic-updates	Type: integer
trigger-updates	Type: integer
out-mcast-request	Type: integer
out-ucast-update	Type: integer
out-ucast-request	Type: integer
in-mcast-update	Type: integer

in-mcast-request	Type: integer
in-ucast-update	Type: integer
in-ucast-request	Type: integer
bad-pkt	Type: integer
bad-route	Type: integer

Command Modes

- /exec

show rmon

show rmon {**alarms**| **events**| **hcalarms**| **info**| **logs**} [**__readonly__** [**TABLE_rmon_alarm** *alaram-str ascii-buf-str samp-type-str ris-trshod-str fall-trshod-str start-enable-str*] [**TABLE_rmon_event** *ev-alaram-str ev-desc-str ev-fir-cause last-fired*] [**TABLE_rmon_hcala** *hc-alaram-str hc-ascii-buf-str hc-sam-ty-str hc-ris-thresh-str hc-fal-thresh-str start-alrm-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__	
TABLE_rmon_alarm	
alaram-str	Type: string
ascii-buf-str	Type: string
samp-type-str	Type: string
ris-trshod-str	Type: string
fall-trshod-str	Type: string
start-enable-str	Type: string
TABLE_rmon_event	
ev-alaram-str	Type: string
ev-desc-str	Type: string
ev-fir-cause	Type: string
last-fired	Type: string
TABLE_rmon_hcala	

hc-alaram-str	Type: string
hc-ascii-buf-str	Type: string
hc-sam-ty-str	Type: string
hc-ris-thresh-str	Type: string
hc-fal-thresh-str	Type: string
start-alrm-str	Type: string
fail-attem-str	Type: string
TABLE_rmon_info	
max-32-64-ala-str	Type: string
max-conf-32-ala-str	Type: string
max-conf-64-ala-str	Type: string
TABLE_rmon_log	
event-id-str	Type: string
rmon-pch	Type: string
log-buff-str	Type: string
log-oid	Type: string

Command Modes

- /exec

show role

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

Syntax Description

show	Show running system information
role	Show role configuration
name	Enter the role name
arg3	Type: userdef Enter the role name
__readonly__	
TABLE_role	
role_name	Type: string
role_description	Type: string
attribute_scope	**global value: 0x00000001** **local value: 0x00000002**
permit_vsan	Type: bitmap
permit_vlan	Type: bitmap
permit_interface	Type: interface-mrange
permit_vrf	Type: string
TABLE_rule	
rule_num	Type: integer min: 1 max: 256
rule_action	**permit value: 1** **deny value: 2**

rule_permission	**read value: 1** **read-write value: 2** **command value: 3**
rule_permission_mds	**show value: 11** **config value: 12** **clear value: 13** **debug value: 14** **exec value: 15**
rule_featuretype	Type: _enum
rule_entity	Type: string

Command Modes

- /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	Enter the feature-group name
arg4	Type: string length: 16 Feature-group name
detail	Detailed information including feature rules
__readonly__	
TABLE_role_feature_group	
feature_group_name	Type: string
TABLE_role_feature	
feature_name	Type: string
TABLE_role_feature_rule	
feature_rule	Type: string

Command Modes

- /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	Enter the feature name
arg5	Type: string length: 16 Feature name
detail	Detailed information including feature rules
__readonly__	
TABLE_role_feature	
feature_name	Type: string
TABLE_role_feature_rule	
feature_rule	Type: string

Command Modes

- /exec

show rollback log

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
__readonly__	Read only
log_entry	Type: string length: 256 log entry from rollback log

Command Modes

- /exec

show rollback status

show rollback status

Syntax Description

show	Show running system information
rollback	show rollback
status	show status of last rollback operation

Command Modes

- /exec

show route-map

show route-map [*route-map-name*| *route-map-cfg-name*] [**__readonly__ TABLE_rmap** *name seq action* [*descript*] [*continue*] [**TABLE_rmap_match** *match_type match_stmt*] [**TABLE_rmap_set** *set_type set_stmt*]]

Syntax Description

show	Show running system information
route-map	Route-map information
route-map-name	Type: string pattern: [!-~]* length: 63 Route-map name
route-map-cfg-name	Type: string Known route-map name
__readonly__	
TABLE_rmap	
TABLE_rmap_match	
TABLE_rmap_set	
name	Type: string
seq	Type: uinteger
action	Type: string
descript	Type: string
continue	Type: uinteger
match_type	Type: string
match_stmt	Type: string
set_type	Type: string
set_stmt	Type: string

Command Modes

- /exec

show route-map pbr-statistics

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

Syntax Description

show	Show running system information
route-map	Route-map information
pbr_rmap_name	Type: string pattern: [!-~]* length: 63 Route-map name
pbr_rmap_cfg_name	Type: string Known route-map name
pbr-statistics	PBR statistics
__readonly__	
tag	Type: string
action	Type: string
seq	Type: uinteger
pbr_pkt_count	Type: longlong
dflt_rtg_pkt_count	Type: longlong

Command Modes

- /exec

show 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	topology
topo_val	Type: uinteger min: 0 max: 63 topology value
switchid	switchid
switchid	Type: uinteger min: 0 max: 16383 switchid value
all	all topologies
detail	detail
hex	display in hex
__readonly__	Read Only
line_marker	Type: string line marker
is_hex	Type: string print in hex
TABLE_route	Route delimiter
topo_id	Type: uinteger topo-id value

ftag_value	Type: uinteger ftag value
swid	Type: uinteger switch-id
sswid	Type: uinteger sub-switch id
num_paths	Type: uinteger num of paths
TABLE_path	Path delimiter
path_str	Type: string paths
admin_distance	Type: uinteger admin distance
metric	Type: uinteger metric
time	Type: uinteger time
time_detail	Type: uinteger time_detail
uuid	Type: string uuid

Command Modes

- /exec

show routing-context

show routing-context

Syntax Description

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

Command Modes

- /exec

show routing-privilege

show routing-privilege

Syntax Description

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

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
topology	Display per-topology information
topology-name	Type: string topology name
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
clients	Display urib client information
client	Type: string Display single urib client information
protocol	Type: string Display single urib client information

__readonly__	
TABLE_client	
client_name	Type: string
pib_index	Type: hex
epid	Type: integer
mts_sap	Type: integer
mts_sap_str	Type: string
mru_cache_hits	Type: integer
mru_cache_misses	Type: integer
pib_stale_time	Type: integer
pss_created	Type: string
bad_l3vm_table_refcount	Type: integer
pib_stale_timer	Type: string
TABLE_nib_node	
uribtibtype_contextname	Type: string
all_igp	Type: string
self	Type: string
all	Type: string
unib_notify_mask	Type: hex
routes	Type: integer
rnhs	Type: integer
labels	Type: integer
convg_req_mask	Type: hex
convg_send_mask	Type: hex
utib_state	Type: string
pending_timer	Type: string
urib_state_invalid	Type: string

TABLE_msgs_rcvd	
urib_mtype_str	Type: string
upib_rcvd	Type: integer
TABLE_msgs_sent	
urib_mtype_str	Type: string
upib_sent	Type: integer

Command Modes

- /exec

show routing hash

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

Syntax Description

show	Show running system information
routing	Display routing information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
hash	Display load-balancing hash information
mpls	MPLS path load-balancing hash information *Not available in this release.*
ip-prefix	Type: ipprefix Exact match IP prefix

eos	Set End-of-Stack to 1
source	Type: ipaddr Source IPv4 address of unicast flow or group address for multicast flow
dest	Type: ipaddr Destination IPv4 address of unicast flow or source address for multicast flow
v6-source	Type: ipv6addr Source IPv6 address of unicast flow or group address for multicast flow
v6-dest	Type: ipv6addr Destination IPv6 address of unicast flow or source address for multicast flow
l2vpn	MPLS path load-balancing hash information *Not available in this release.*
label	Type: uinteger min: 1 max: 1048575 remote_vc_label
src-port	Type: integer min: 1 max: 65535 Source-port
dest-port	Type: integer min: 1 max: 65535 Destination-port
interface	Display routes with this output interface only
interface	Type: interface Interface Name
in-interface	Incoming Interface for Packet
in-interface	Type: interface Interface Name
ip-proto	IP Protocol information for the packet
ip-proto	Type: integer min: 0 max: 255 IP Protocol information for the packet

module	Module
module-id	Type: integer min: 1 max: 32 Module
__readonly__	
TABLE_vrf	
vrf-name-out	Type: vrf
TABLE_addrf	
addrf	**ipv4 value: 1**
TABLE_hashpath	
mcast	Type: bool
hashpath	Type: ipaddr
hash-val	Type: integer
TABLE_prefix	
ipprefix	Type: ipaddr
ucast-nhops	Type: integer
mcast-nhops	Type: integer
attached	Type: bool
TABLE_path	
ubest	Type: bool
mbest	Type: bool
ipnexthop	Type: ipaddr
ifname	Type: interface
pref	Type: integer
metric	Type: integer
uptime	Type: duration
clientname	Type: string

type	

unknown value: 1

value: 2

value: 3

value: 4

rip value: 5

L1 value: 6

L2 value: 7

intra value: 8

inter value: 9

type-1 value: 10

type-2 value: 11

nssa type-1 value: 12

nssa type-2 value: 13

intra value: 14

inter value: 15

type-1 value: 16

type-2 value: 17

nssa type-1 value: 18

nssa type-2 value: 19

internal value: 20

external value: 21

internal value: 22

external value: 23

discard value: 24

internal value: 25

	external value: 26 **invalid-route-type value: 27**
tag	Type: integer
stale	Type: bool
unres	Type: bool
hidden	Type: bool
stale-label	Type: bool

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
hidden-nh	Display hidden next-hop information
__readonly__	
uribtibtype_contextname	Type: string
utibtibtype_topologyname	Type: string
TABLE_hidden_nh	
hidden_nh_uhn_prefix	Type: ipaddr

hidden_nh_uhn_mask_len	Type: integer
pib	Type: string
rnh	Type: ipaddr
rnh_mask_len	Type: integer

Command Modes

- /exec

show routing ip ipv4 multicast lisp encap __readonly__

show routing [**ip**| **ipv4**] **multicast lisp encap** [**__readonly__** *mrib-list-encap* **TABLE_mrib_list_encap** *encap-index source-rloc dest-rloc ref-count*]

Syntax Description

show	Show running system information
routing	Display routing information
ip	Display IP information
ipv4	Display IP information
multicast	Display multicast information
lisp	LISP related information
encap	All the encap indices
__readonly__	
mrib-list-encap	Type: string
TABLE_mrib_list_encap	
encap-index	Type: integer
source-rloc	Type: string
dest-rloc	Type: string
ref-count	Type: integer

Command Modes

- /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_notifeee_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_notifiee_nib** *notifiee_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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ipv6	Display IPv6 information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name

clients	Display u6rib client information
client	Type: string Display single u6rib client information
ipv6-protocol	Type: string Display single u6rib client information
__readonly__	
TABLE_client	
client_name	Type: string
pib_index	Type: integer
pib_state	Type: string
pib_id	Type: hex
multicast_or_unicast_pib	Type: string
mru_cache_hits	Type: integer
mru_cache_misses	Type: integer
mts_sap	Type: integer
mts_sap_str	Type: string
bad_l3vm_table_refcount	Type: integer
pib_stale_time	Type: integer
TABLE_nib_node	
u6ribtibtype_contextname	Type: string
routes	Type: integer
rnhs	Type: integer
TABLE_notifeee_mask	
u6pib_name	Type: string
index	Type: integer
u6tib_state	Type: string
pending_timer	Type: string
u6rib_state_invalid	Type: bool

u6nib_notifier_all	Type: bool
TABLE_notify_rcd	
notify_rcd_name	Type: string
notify_rcd_handle	Type: integer
notifier_pib_u6pib_index	Type: integer
TABLE_notifiee_nib	
notifiee_pib_u6pib_name	Type: string
u6nib_notify_handle	Type: integer
TABLE_ready_client_event_queue	
queue_name	Type: string
queue_count	Type: integer
TABLE_client_event	
event	Type: hex
use_buf	Type: integer
sched	Type: integer
resend	Type: integer
buf	Type: hex
state	Type: string
TABLE_buffer_rqst_client_event_queue	
queue_name	Type: string
queue_count	Type: integer
TABLE_client_event	
event	Type: hex
use_buf	Type: integer
sched	Type: integer
resend	Type: integer
buf	Type: hex
state	Type: string

update_ack_queue_count	Type: integer
TABLE_update_ack	
update_ack	Type: hex
update_ack_data	Type: hex
update_ack_type	Type: integer
update_ack_xid	Type: integer
TABLE_route_buffer_used_queue	
queue_name	Type: string
queue_count	Type: integer
TABLE_clt_buf	
clt_buf	Type: hex
clt_buf_count	Type: integer
clt_buf_xid	Type: integer
TABLE_rnh_buffer_used_queue	
queue_name	Type: string
queue_count	Type: integer
TABLE_clt_buf	
clt_buf	Type: hex
clt_buf_count	Type: integer
clt_buf_xid	Type: integer
TABLE_msgs_rcvd	
u6rib_mtype_str	Type: string
u6pib_rcvd	Type: integer
TABLE_msgs_sent	
u6rib_mtype_str	Type: string
u6pib_sent	Type: integer

Command Modes

- /exec

show routing ipv6 hash

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

Syntax Description

show	Show running system information
routing	Display routing information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ipv6	Display IPv6 information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
hash	Display load-balancing hash information
mpls	MPLS path load-balancing hash information *Not available in this release.*
ipv6-prefix	Type: ipv6prefix Exact match IPv6 prefix
eos	Set End-of-Stack to 1

source	Type: ipv6addr Source address of unicast flow or group address for multicast flow
dest	Type: ipv6addr Destination address of unicast flow or source address for multicast flow
ip-proto	IP Protocol information for the packet
ip-proto	Type: integer min: 0 max: 255 IP Protocol information for the packet
src-port	Type: integer min: 1 max: 65535 Source-port
dest-port	Type: integer min: 1 max: 65535 Destination-port
in-interface	Incoming Interface for Packet
in-interface	Type: interface Interface Name
module	Module
module-id	Type: integer min: 1 max: 32 Module
__readonly__	
TABLE_vrf	
vrf-name-out	Type: vrf
hash-type	Type: integer
mcast	Type: bool
hashpath	Type: ipaddr
TABLE_prefix	
ipprefix	Type: string

ucast-nhops	Type: integer
mcast-nhops	Type: integer
attached	Type: bool
TABLE_path	
ubest	Type: bool
mbest	Type: bool
ipnexthop	Type: ipv6addr
ifname	Type: interface
pref	Type: integer
tag	Type: integer
metric	Type: integer
uptime	Type: string
clientname	Type: string
type	Type: string
stale	Type: bool
hidden	Type: bool

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ipv6	Display IPv6 information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
hidden-nh	Display hidden next-hop information
__readonly__	
uribtibtype_contextname	Type: string
TABLE_hidden_nh	
nh	Type: string
nh-iod	Type: integer
hidden_nh_uhn_prefix	Type: ipaddr

hidden_nh_uhn_mask_len	Type: integer
pib	Type: string
rnh	Type: ipaddr
rnh_mask_len	Type: integer

Command Modes

- /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	Display unicast information
memory	Display u6rib memory information
estimate	Display u6rib memory estimate
routes	Display u6rib memory estimate for # routes
route-count	Type: integer min: 1000 max: 1000000 Number of routes
next-hops	Display u6rib memory estimate for # next-hops per route
nh-count	Type: integer min: 1 max: 64 Number of next-hops per route
labels	When the routes are associated with next hop labels
__readonly__	
curr-max-MB	Type: integer
curr-max-routes	Type: integer
curr-max-nh	Type: integer
inuse-MB	Type: integer
inuse-routes	Type: integer
inuse-nh	Type: integer
conf-max-MB	Type: integer

conf-max-routes	Type: integer
conf-max-nh	Type: integer
est-MB	Type: integer
est-routes	Type: integer
est-nh	Type: integer

Command Modes

- /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	Display unicast routing information
memory	Display u6rib memory information
statistics	Display u6rib memory statistics
__readonly__	
TABLE_shrd_mem	
TABLE_u6rib_slabs	
TABLE_u6rib_blks	
TABLE_u6rib_routes_rnhs	
ctx-name	Type: string
slab-name	Type: string
slab-blk-name	Type: string
rbuf-alloc	Type: uinteger
rbuf-high-water	Type: uinteger
rbuf-max	Type: uinteger
rbuf-numalloc	Type: uinteger
slbs-alloc	Type: uinteger
slbs-high-water	Type: uinteger
slbs-max	Type: uinteger
slbs-numalloc	Type: uinteger

user-nodes	Type: uinteger
total-nodes	Type: uinteger
elem-size	Type: uinteger
alloc-count	Type: uinteger
max-allocs	Type: uinteger
slab-size	Type: uinteger
block-count	Type: uinteger
max-blocks	Type: uinteger
slab-count	Type: uinteger

Command Modes

- /exec

show routing ipv6 nexthop info

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

Syntax Description

show	Show running system information
routing	Display routing information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ipv6	Display IPv6 information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
nexthop	Show the nh_info tree
info	Show the nh_info tree

Command Modes

- /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** *nhlabel-index nh-label nhlfe-is-vpn nhlfe-owner-index*] *total-entries*]

Syntax Description

show	Show running system information
routing	Display routing information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ipv6	Display IPv6 information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
nhlfe	Display NHLFE db
stats	Display statistics
__readonly__	
TABLE_vrf	
vrf-name-out	Type: vrf
nhlfe-owner	Type: string
nhlfe-refcount	Type: integer

TABLE_nhlabel	
nhlabel-index	Type: integer
nh-label	Type: string
nhlfe-is-vpn	Type: string
nhlfe-owner-index	Type: string
total-entries	Type: integer

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ipv6	Display IPv6 information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
recursive-next-hop	Display recursive next-hop table
ipv6-addr	Type: ipv6addr Display single recursive virtual next-hop
__readonly__	
TABLE_vrf	
vrf-name-out	Type: vrf
TABLE_addrf	

addrf	**ipv6 value: 1**
TABLE_prefix	
ipprefix	Type: ipv6prefix
uptime	Type: duration
TABLE_clients	
client-req	Type: string
client-pend	Type: string

Command Modes

- /exec

show routing memory estimate

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

Syntax Description

show	Show running system information
routing	Display routing information
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
memory	Display urib memory information
estimate	Display urib memory estimate
routes	Display urib memory estimate for # routes
route-count	Type: integer min: 1000 max: 1000000 Number of routes
next-hops	Display urib memory estimate for # next-hops per route
nh-count	Type: integer min: 1 max: 64 Number of next-hops per route
labels	When the routes are associated with next hop labels
__readonly__	
current_max_mb	Type: integer
current_max_routes	Type: integer
urib_max_nh	Type: integer
used_mb	Type: integer
route_stats_alloc_count	Type: integer

nhs	Type: integer
configured_max_mb	Type: integer
configured_max_routes	Type: integer
urib_routes_max_nh	Type: integer
estimate_mb	Type: integer
estimate_routes	Type: integer
estimate_nhs	Type: integer
estimate_with_mvpn_mb	Type: integer
estimate_with_ospf_mb	Type: integer
estimate_with_eigrp_mb	Type: integer

Command Modes

- /exec

show routing memory statistics

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

Syntax Description

show	Show running system information
routing	Display routing information
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
memory	Display urib memory information
statistics	Display urib memory statistics
__readonly__	
TABLE_shrd_mem	
ubuf-alloc	Type: uinteger
ubuf-high-water	Type: uinteger
ubuf-max	Type: uinteger
ubuf-numalloc	Type: uinteger
rbuf-alloc	Type: uinteger
rbuf-high-water	Type: uinteger
rbuf-max	Type: uinteger
rbuf-numalloc	Type: uinteger
slbs-alloc	Type: uinteger
slbs-high-water	Type: uinteger
slbs-max	Type: uinteger
slbs-numalloc	Type: uinteger

TABLE_urib_slabs	
slab-name	Type: string
slab-alloc-count	Type: uinteger
slab-max-allocs	Type: uinteger
slab-size	Type: uinteger
TABLE_urib_blks	
block-name	Type: string
block-count	Type: uinteger
max-blocks	Type: uinteger
blks-count	Type: uinteger
TABLE_urib_routes_rnhs	
ctx-name	Type: string
user-node	Type: uinteger
total-node	Type: uinteger
elem-size	Type: uinteger

Command Modes

- /exec

show routing multicast

show routing [**ip**| **ipv4**] **multicast** {**[bitfield] [detail]**| **rp**| [*group*] **summary** [**software-forwarded**| **rpf-failed**]| **summary** [**count**| **software-forwarded**| **rpf-failed**]| {*source group*| {*group* [*source*]| *group* **shared-tree**| *group* **source-tree**}| **shared-tree**| **source-tree**} {**[flags]**| **[detail]**| [**summary** [**software-forwarded**| **rpf-failed**]| **bitfield**]}} [**vrf** {*vrf-name*| *vrf-known-name*| **all**}] [**__readonly__ TABLE_vrf** *vrf-name* **TABLE_addr** *mcast-addrs bidir uptime pending if-name rpf-nbr internal rpf-nbr-uptime oif-count* **TABLE_mpib** *mpib-name stale-route* **TABLE_oif** *oif-name oif-uptime mpib-refcount* **TABLE_oif_mpib** *oif-mpib-name stale-oif*]

Syntax Description

show	Show running system information
ip	Display IP information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
routing	Display routing information
ipv4	Display IP information
multicast	Display multicast information
summary	Display route counts
shared-tree	Display route for *,G entries
source-tree	Display route for S,G entries
software-forwarded	Display software switched route counts only
rpf-failed	Display RPF failure statistics
rp	Display RP routes (RP, 0.0.0.0/32)

group	Type: ipaddr Display multicast group/source address for route
source	Type: ipaddr Display multicast group/source address for route
count	Display route counts only
bitfield	Display bitfield details
detail	Display detailed route attributes
flags	Display detailed route attributes
__readonly__	
TABLE_vrf	
vrf-name	Type: vrf
TABLE_addr	
mcast-addrs	Type: string
bidir	Type: bool
pending	Type: bool
uptime	Type: duration
if-name	Type: interface
rpf-nbr	Type: ipaddr
internal	Type: bool
rpf-nbr-uptime	Type: duration
oif-count	Type: integer
TABLE_mpib	
mpib-name	Type: string
stale-route	Type: bool
TABLE_oif	
oif-name	Type: string
oif-uptime	Type: duration
mpib-refcount	Type: integer

TABLE_oif_mpib	
oif-mpib-name	Type: string
stale-oif	Type: bool

Command Modes

- /exec

show routing multicast clients

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

Syntax Description

show	Show running system information
routing	Display routing information
ip	Display IP information
ipv4	Display IP information
multicast	Display multicast information
clients	Display multicast routing client information
client-name	Type: string Multicast routing client name
__readonly__	
TABLE_mpib	
mpib_name	Type: string
mpib_index	Type: uinteger
mpib_pid	Type: uinteger
mpib_mts_sap	Type: uinteger
mpib_shm	Type: string
stale_timer	Type: bool
join_notify	Type: bool
prune_notify	Type: bool
rpf_notify	Type: bool

delete_notify	Type: bool
repopulate_notify	Type: bool
ssm_owner	Type: bool
bidir_owner	Type: bool
static_owner	Type: bool
shared_only_owner	Type: bool
locally_joined_owner	Type: bool
external_owner	Type: bool
mdt_owner	Type: bool
sticky_iif_owner	Type: bool
data_created_owner	Type: bool
internal_owner	Type: bool
prune_owner	Type: bool
attached_owner	Type: bool
otv_decap_owner	Type: bool
secondary_owner	Type: bool
encap_index_owner	Type: bool
force_punt_owner	Type: bool
multi_route_owner	Type: bool
notify_sent	Type: integer
notify_ack_rcvd	Type: integer
notify_fail	Type: integer
add_route_req_rcvd	Type: integer
add_route_ack_sent	Type: integer
add_route_ack_fail	Type: integer
delete_route_req_rcvd	Type: integer

delete_route_ack_sent	Type: integer
delete_route_ack_fail	Type: integer
update_route_req_rcvd	Type: integer
update_route_ack_sent	Type: integer
update_route_ack_fail	Type: integer
update_mdt_info_req_rcvd	Type: integer
update_mdt_info_ack_sent	Type: integer
update_mdt_info_ack_fail	Type: integer
mts_update_route_req_rcvd	Type: integer
mts_update_route_ack_sent	Type: integer
mts_update_route_ack_fail	Type: integer
notify_member_count	Type: integer
pending_mpib	Type: bool

Command Modes

- /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	Display IP information
ipv4	Display IP information
multicast	Display multicast information
mdt	Multicast Distribution Tree
encapsulation	Encapsulation Information
detail	Display detailed information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
vrf-name	Type: vrf
TABLE_mdt	
index	Type: integer
group	Type: ipaddr
source	Type: ipaddr

count	Type: integer
delete-pending	Type: bool

Command Modes

- /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	Display IP information
ipv4	Display IP information
multicast	Display multicast information
memory	Display mrib memory information
estimate	Display mrib memory estimate
groups	Display mrib memory estimate for # groups
group-count	Type: integer min: 1 max: 100000 Number of groups
sources-per-group	Display mrib memory estimate for # sources per group
source-count	Type: integer min: 1 max: 10000 Number of sources per route
oifs-per-entry	Display mrib memory estimate for # oifs per (S,G) or (*,G) entry
oif-count	Type: integer min: 1 max: 10000 Number of oifs per entry
mdt-encap-entries	Display mrib memory estimate for # mdt encap entries

encap-entry-count	Type: integer min: 1 max: 100000 Number of mdt encap entries
__readonly__	
TABLE_currentmax	
max-mb	Type: integer
max-groups	Type: integer
sources-per-group	Type: integer
oifs-per-entry	Type: integer
TABLE_inuse	
used-kb	Type: integer
alloc-count	Type: integer
sources-per-group	Type: integer
oifs-per-entry	Type: integer
mdt-encap-entry	Type: integer
TABLE_configuredmax	
max-mb	Type: integer
max-groups	Type: integer
sources-per-group	Type: integer
oifs-per-entry	Type: integer
TABLE_estimate	
estimate-mb	Type: integer
groups	Type: integer
sources-per-group	Type: integer
oifs-per-entry	Type: integer
mdt-encap-entry	Type: integer

Command Modes

- /exec

show routing nhlfe

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

Syntax Description

show	Show running system information
routing	Display routing information
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
nhlfe	Display URIB NHLFE db
stats	Display statistics
__readonly__	
TABLE_vrf	
vrf-name-out	Type: vrf
nhlfe-owner	Type: string

nhlfe-refcount	Type: integer
TABLE_nhlabel	
nhlabel-index	Type: integer
nh-label	Type: string
nhlfe-is-vpn	Type: string
nhlfe-owner-index	Type: string
total-entries	Type: integer

Command Modes

- /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	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
topology	Display per-topology information
recursive-next-hop	Display recursive next-hop table
topology-name	Type: string topology name
ip-addr	Type: ipaddr Display single recursive virtual next-hop
__readonly__	
TABLE_vrf	
vrf-name-out	Type: vrf

TABLE_addrf	
addrf	**ipv4 value: 1**
TABLE_prefix	
ipprefix	Type: ipprefix
uptime	Type: duration
TABLE_clients	
clientname	Type: string

Command Modes

- /exec

show routing unresolved-next-hop

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

Syntax Description

show	Show running system information
routing	Display routing information
unresolved-next-hop	Display unresolved next-hop list
vrf	Display per-VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
<vrf-all>	Display information for all VRFs
ip	Display IP information
ipv4	Display IP information
unicast	Display unicast information
topology	Display per-topology information
topology-name	Type: string topology name
ip-addr	Type: ipaddr Display single unresolved next-hop
detail	Display prefixes for unresolved next-hop
summary	Show summary of resolve buffers

Command Modes

- /exec

show running-config

show running-config

Syntax Description

show	Show running system information
running-config	Current operating configuration

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /exec

show running-config aclmgr (aclmgr)

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

Syntax Description

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

Command Modes

- /exec

show running-config aclmgr (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	show running config with defaults
inactive-if-config	show running config for inactive-policies

Command Modes

- /exec

show running-config adjmgr

show running-config adjmgr [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
adjmgr	Display adjmgr information
all	Display running config with defaults clis

Command Modes

- /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 Modes

- /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	Display running config with defaults clis

Command Modes

- /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	show running config with defaults

Command Modes

- /exec

show running-config bgp

show running-config bgp [all]

Syntax Description

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

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /exec

show running-config clock_manager

show running-config clock_manager [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
clock_manager	show running config for clock manager
all	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	Display running config with defaults

Command Modes

- /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 Modes

- /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 Modes

- /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	Display running config with defaults clis

Command Modes

- /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 Modes

- /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

feature-list

Exclude features

aaa value: 111

Exclude running configuration of aaa

acllog value: 425

Exclude running configuration of acllog

aclmgr value: 351

Exclude running configuration of aclmgr

callhome value: 66

Exclude running configuration of callhome

cdp value: 946

Exclude running configuration of cdp

cert-enroll value: 169

Exclude running configuration of cert-enroll

cfs value: 126

Exclude running configuration of cfs

cmp value: 389

Exclude running configuration of cmp

diagnostic value: 367

Exclude running configuration of diagnostic

eem value: 341

Exclude running configuration of event manager

license value: 106

Exclude running configuration of license

monitor value: 174

Exclude running configuration of SPAN sessions

ntp value: 72

Exclude running configuration of NTP

radius value: 113

Exclude running configuration of radius

rpm value: 348

Exclude running configuration of rpm

security value: 55

Exclude running configuration of security

track value: 379

Exclude running configuration of track

vshd value: 37

Exclude running configuration of vshd

spanning-tree value: 171

Exclude running configuration of Spanning-tree

ipqos value: 377

Exclude running configuration of IPQOS

copp value: 407

Exclude running configuration of Copp

dhcp value: 360

Exclude running configuration of DHCP

wccp value: 494

Exclude running configuration of WCCP

l2pt value: 745

Exclude running configuration of L2PT

echat value: 1045

Exclude running configuration of ECHAT

Command Modes

- /exec

show running-config exclude fabricpath

show running-config exclude fabricpath

Syntax Description

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

Command Modes

- /exec

show running-config exclude fex

show running-config exclude fex [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
exclude	Exclude lines that match
fex	show running config of fex
all	Show running config with defaults

Command Modes

- /exec

show running-config explicit

show running-config explicit

Syntax Description

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

Command Modes

- /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	Show running config with defaults

Command Modes

- /exec

show running-config fabricpath topology

show running-config fabricpath topology [all]

Syntax Description

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

Command Modes

- /exec

show running-config fex

show running-config fex [all]

Syntax Description

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

Command Modes

- /exec

show running-config glbp

show running-config glbp [all]

Syntax Description

show	Show running system information
running-config	Show the system running information
glbp	Show GLBP running configuration
all	Show GLBP running configuration defaults

Command Modes

- /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	Show HSRP running configuration defaults

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show running-config interface (clic)

show running-config interface [*if0*] **[all]**

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
if0	Type: interface-mrange interface type and number in module/slot format
all	show running config with defaults

Command Modes

- /exec

show running-config interface (clic)

show running-config interface *if0* **[membership]**

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
if0	Type: interface-mrange interface type and number in module/slot format
membership	Show membership information

Command Modes

- /exec

show running-config interface defaults

show running-config interface *if0* **defaults**

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
if0	Type: interface-mrange interface type and number in module/slot format
defaults	show default running config

Command Modes

- /exec

show running-config interface explicit

show running-config interface *if0* **explicit**

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
if0	Type: interface-mrange interface type and number in module/slot format
explicit	show default running config

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show running-config ipqos (qosmgr)

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

Syntax Description

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

Command Modes

- /exec

show running-config ipqos (qosmgr)

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

Syntax Description

show	Show running system information
running-config	Current operating configuration
ipqos	show running config for ipqosmgr
all	show running config with defaults
inactive-if-config	show running config for inactive-policies

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show running-config l2pt

show running-config l2pt [all]

Syntax Description

show	Show system information
running-config	System running configuration
l2pt	Show running configuration for L2PT
all	Show running configuration for L2PT with defaults

Command Modes

- /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	Display running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Show all NTP running configuration

Command Modes

- /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	Show NVE running configuration defaults

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /exec

show running-config res_mgr

show running-config res_mgr

Syntax Description

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

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show running-config routing 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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults

Command Modes

- /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 Modes

- /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)
section	Type: string the section to show, a regular expression, (use a dot for a space)

Command Modes

- /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	show running config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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
all	**all value: 1** Current operating configuration with defaults
interface	Specify an interface as a target for the command
interface_range	Type: interface-mrange

Command Modes

- /exec

show running-config tacacs+

show running-config "tacacs+" [all]

Syntax Description

show	show running-cfg
running-config	show running system information
tacacs+	Display tacacs configuration
all	show running config with defaults

Command Modes

- /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	Show track running configuration defaults

Command Modes

- /exec

show running-config udld

show running-config udld [all]

Syntax Description

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

Command Modes

- /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	Display config from all VDC including defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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 Modes

- /exec

show running-config vlan (clis)

show running-config vlan

Syntax Description

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

Command Modes

- /exec

show running-config vlan (clis)

show running-config vlan *vlan-id*

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19

Command Modes

- /exec

show running-config vlan (vlan_mgr_cli)

show running-config vlan *vlan-id*

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19

Command Modes

- /exec

show running-config vlan_mgr

show running-config vlan_mgr

Syntax Description

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

Command Modes

- /exec

show running-config vpc

show running-config vpc [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vpc	show running config for vPC
all	show running config with defaults

Command Modes

- /exec

show running-config vrf

show running-config vrf *vrf-cfg-name* **[all]**

Syntax Description

show	Show running system information
running-config	Current operationg configuration
vrf	Display VRF information
vrf-cfg-name	Type: vrf antipattern: default Configurable VRF name
all	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	show running config with defaults

Command Modes

- /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 Modes

- /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	Show running configuration for VTP with defaults

Command Modes

- /exec

S Show Commands

- show scheduler config, page 2636
- show scheduler job, page 2638
- show scheduler logfile, page 2639
- show scheduler schedule, page 2640
- show snmp, page 2642
- show snmp community, page 2647
- show snmp context, page 2648
- show snmp engineID, page 2649
- show snmp group, page 2650
- show snmp host, page 2652
- show snmp mib igmpCacheTable, page 2654
- show snmp mib igmpInterfaceTable, page 2656
- show snmp mib pimCandidateRPTable, page 2658
- show snmp mib pimComponentTable, page 2659
- show snmp mib pimInterfaceTable, page 2660
- show snmp mib pimIpMRouteNextHopTable, page 2662
- show snmp mib pimIpMRouteTable, page 2664
- show snmp mib pimJoinPruneInterval, page 2666
- show snmp mib pimNeighborTable, page 2667
- show snmp mib pimRPSetTable, page 2668
- show snmp pss, page 2670
- show snmp roledebug, page 2671
- show snmp sessions, page 2672
- show snmp snmpv3stats, page 2673

- show snmp source-interface, page 2674
- show snmp trap, page 2675
- show snmp user, page 2676
- show sockets buffers, page 2678
- show sockets client, page 2679
- show sockets connection, page 2688
- show sockets keychain-dump, page 2691
- show sockets performance, page 2692
- show sockets statistics, page 2693
- show sockets tcp keychain binding, page 2697
- show spanning-tree (stp), page 2698
- show spanning-tree (stp), page 2699
- show spanning-tree interface (stp), page 2709
- show spanning-tree interface (stp), page 2710
- show spanning-tree mst, page 2717
- show spanning-tree mst configuration __readonly__, page 2728
- show spanning-tree mst configuration digest __readonly__, page 2729
- show spanning-tree mst detail, page 2730
- show spanning-tree mst interface, page 2731
- show spanning-tree mst interface detail, page 2738
- show spanning-tree pathcost method, page 2739
- show spanning-tree summary, page 2740
- show spanning-tree summary totals, page 2746
- show spanning-tree vlan (stp), page 2751
- show spanning-tree vlan (stp), page 2752
- show spanning-tree vlan (stp), page 2753
- show spanning-tree vlan (stp), page 2754
- show spanning-tree vlan (stp), page 2755
- show sprom, page 2756
- show sprom fex, page 2765
- show sprom fex all, page 2766
- show ssh key, page 2767
- show ssh server, page 2768

- show startup-config, page 2769
- show startup-config aaa, page 2770
- show startup-config acllog, page 2771
- show startup-config aclmgr, page 2772
- show startup-config adjmgr, page 2773
- show startup-config arp, page 2774
- show startup-config bfd, page 2775
- show startup-config bgp, page 2776
- show startup-config bloggerd, page 2777
- show startup-config callhome, page 2778
- show startup-config cdp, page 2779
- show startup-config cert-enroll, page 2780
- show startup-config cfs, page 2781
- show startup-config copp, page 2782
- show startup-config dhcp, page 2783
- show startup-config diagnostic, page 2784
- show startup-config eem, page 2785
- show startup-config eigrp, page 2786
- show startup-config eltm, page 2787
- show startup-config exclude, page 2788
- show startup-config fabricpath, page 2792
- show startup-config fabricpath topology, page 2793
- show startup-config fex, page 2794
- show startup-config glbp, page 2795
- show startup-config hsrp, page 2796
- show startup-config icmpv6, page 2797
- show startup-config igmp, page 2798
- show startup-config interface (clic), page 2799
- show startup-config interface (clic), page 2800
- show startup-config ip, page 2801
- show startup-config ipqos, page 2802
- show startup-config ipv6, page 2803
- show startup-config isis, page 2804

- show startup-config l2pt, page 2805
- show startup-config l3vm, page 2806
- show startup-config ldap, page 2807
- show startup-config license, page 2808
- show startup-config lldp, page 2809
- show startup-config log, page 2810
- show startup-config monitor, page 2811
- show startup-config msdp, page 2812
- show startup-config ntp, page 2813
- show startup-config nv overlay, page 2814
- show startup-config ospf, page 2815
- show startup-config ospfv3, page 2816
- show startup-config pim, page 2817
- show startup-config pim6, page 2818
- show startup-config port-security, page 2819
- show startup-config radius, page 2820
- show startup-config rip, page 2821
- show startup-config routing multicast, page 2822
- show startup-config rpm, page 2823
- show startup-config rsvp, page 2824
- show startup-config security, page 2825
- show startup-config snmp, page 2826
- show startup-config tacacs+, page 2827
- show startup-config track, page 2828
- show startup-config udld, page 2829
- show startup-config vdc-all, page 2830
- show startup-config vdc, page 2831
- show startup-config virtual-service, page 2832
- show startup-config vlan (clis), page 2833
- show startup-config vlan (clis), page 2834
- show startup-config vpc, page 2835
- show startup-config vrf, page 2836
- show startup-config vrf default, page 2837

- show startup-config vrrp, page 2838
- show startup-config vshd, page 2839
- show startup-config vtp, page 2840
- show summary, page 2841
- show system auto-collect tech-support, page 2842
- show system cores, page 2843
- show system error-id, page 2844
- show system exception-info, page 2845
- show system inband queuing, page 2846
- show system kgdb, page 2848
- show system pss shrink status, page 2849
- show system redundancy ha status, page 2851
- show system redundancy status, page 2852
- show system reset-reason (lcmcli), page 2854
- show system reset-reason (lcmcli), page 2855
- show system reset-reason fex, page 2856
- show system reset-reason module, page 2857
- show system resources (process), page 2858
- show system resources (process), page 2859
- show system resources module, page 2861
- show system resources module all, page 2862
- show system routing mode, page 2863
- show system srg, page 2864
- show system standby manual-boot, page 2865
- show system switchover impact, page 2866
- show system uptime, page 2867
- show system verify bios, page 2869
- show system vlan reserved, page 2870

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
__readonly__	
terminal	Type: string logfile terminal
feature	Type: string name service
logfilesize	Type: string logfilesize
emailfrom	Type: string emailfrom
emailreplyto	Type: string emailreplyto
smtpserver	Type: string smtpserver
port	Type: string port
usevrf	Type: string usevrf
TABLE_userconfig	userconfig
username	Type: string username
password	Type: string password

TABLE_jobconfig	job configs
jobdata	Type: string jobdata
TABLE_scheduleconfig	schedule configs
schedulename	Type: string schedulename
scheduletype	Type: string scheduletype
TABLE_jobs	jobs
status	Type: string status
email	Type: string email

Command Modes

- /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	Specify the name of job
s0	Type: string length: 31 Specify the job name
__readonly__	
TABLE_schedulerjobs	schedulerjobs
jobname	Type: string job name
jobdata	Type: string job data

Command Modes

- /exec

show scheduler logfile

show scheduler logfile [**__readonly__** [**TABLE_joblog** *jobname* [*jobstatus*] [*schedulename*] [*scheduleusername*] [*completiontime*] [*joboutput*]]]

Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
logfile	Display scheduler job output log
__readonly__	
TABLE_joblog	jobs log
jobname	Type: string job name
jobstatus	Type: string job status
schedulename	Type: string schedulename
scheduleusername	Type: string scheduleusername
completiontime	Type: string completiontime
joboutput	Type: string joboutput

Command Modes

- /exec

show scheduler schedule

show scheduler schedule [**name** *s0*] [**__readonly__** [**TABLE_schedules** *schedulename* [*scheduleusername*] [*scheduletype*] [*starttime*] [*lastexectime*] [*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	Specify the name of schedule
s0	Type: string length: 31 Specify the schedule name
__readonly__	
TABLE_schedules	schedules
schedulename	Type: string Schedule name
scheduleusername	Type: string schedule username
scheduletype	Type: string scheduletype
starttime	Type: string starttime
lastexectime	Type: string last exec time
lastcompletiontime	Type: string lastcompletiontime
execcount	Type: string execcount
jobcount	Type: string jobcount

TABLE_jobs	jobs
jobname	Type: string jobname
execstatus	Type: string execstatus

Command Modes

- /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*] [*engineID*]] *tcp_suth_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*]]] [*protocal_status*] [**TABLE_snmp_contexts** *context_name proto_instanceid vrf topology* [*vlan*| *MST*]]]

Syntax Description

show	Show running system information
snmp	show snmp information
__readonly__	Read Only
TABLE_snmp_community	Table that displays the community information
TABLE_snmp_users	Table that displays the user information
TABLE_groups	Table that displays the group information
TABLE_policies	Table that displays the policy information
TABLE_snmp_contexts	Table that displays the context information
sys_contact	Type: string System Contact
sys_location	Type: string System Location
snmp_input_packets	Type: string SNMP input packets
bad_snmp_version	Type: string bad snmp version in Input SNMP packets
unknown_community_name	Type: string unknown community name in Input SNMP packets
illegal_community_name	Type: string Illegal community name in Input SNMP packets

encoding_Err	Type: string Encoding Errors in Input SNMP packets
req_var_nums	Type: string number of requested variables
alt_var_nums	Type: string number of altered variable
get_req_in	Type: string GET request in Input SNMP packets
getnext_req_in	Type: string GET-NEXT request in Input SNMP packets
set_req_in	Type: string SET request in Input SNMP packets
noname_pdu_in	Type: string NONAME PDU in Input SNMP packets
badval_pdu_in	Type: string Bad value PDU in Input SNMP packets
ro_pdu_in	Type: string Read only PDU in Input SNMP packets
genral_err_in	Type: string Genral Error in Input SNMP packets
get_resp_in	Type: string Get Response PDU in Input SNMP packets
unknown_ctx	Type: string Unknown context Name in Input SNMP packets
snmp_output_packets	Type: string SNMP Output Packets
trap_pdu	Type: string Trap PDU in Output SNMP Packets
toobig_err	Type: string Too Big errors in Output SNMP Packets

noname_pdu_out	Type: string
badval_pdu_out	Type: string NoName PDU in Output SNMP Packets
genral_err_out	Type: string Genral Error in Output SNMP Packets
get_req_out	Type: string GET request in Output SNMP Packets
getnext_req_out	Type: string GET-NEXTrequest in Output SNMP Packets
set_req_out	Type: string SET request in Output SNMP packets
get_resp_out	Type: string Get Response PDU in Output SNMP Packets
silent_drops	Type: string Silent Drop packets
max_pkt_size	Type: string Maximum packet size
community_name	Type: string community name
grouporaccess	Type: string Group name
context	Type: string contaxt Name
aclfilter	Type: string Acl filter name
user	Type: string User name
auth	Type: string Auth type

priv	Type: string Priv Type
group	Type: string Group name
engineID	Type: string engine id for the user
tcp_suth_status	Type: string TCP authentication status
port_mon_status	Type: string Port monitor status
policy_name	Type: string policy name
pol_admin_status	Type: string Policy Admin status
plo_oper_status	Type: string Police oper status
pol_port_type	Type: string policy port type
counter	Type: string counters
threshold	Type: string Threshold
interval	Type: string Interval
rising_threshold	Type: string Rising threshold
rising_event	Type: string Rising Event
falling_threshold	Type: string Falling threshold

falling_event	Type: string Falling Event
pmon_config	Type: string PMON configured
protocal_status	Type: string Protocal Enable status
context_name	Type: string context name
proto_instanceid	Type: string Protocal instance ID
vrf	Type: string VRF Name
topology	Type: string Topology
vlan	Type: string VLAN name
MST	Type: string MST name

Command Modes

- /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__	Read Only
TABLE_snmp_community	contains all snmp community names
community_name	Type: string community name
grouporaccess	Type: string group or access name
context	Type: string context name
aclfilter	Type: string acl filter name

Command Modes

- /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__	
TABLE_snmp_contexts	All SNMP Contexts Entries
context_name	Type: string SNMP context Name
proto_instanceid	Type: string Name of the protocol instance
vrf	Type: string VRF name
topology	Type: string Name of the Topology
vlan	Type: string VLAN Name
MST	Type: string

Command Modes

- /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__	
engineIDHex	Type: string SNMP engineID in HEX
engineIDDec	Type: string SNMP engineID in Decimal

Command Modes

- /exec

show snmp group

show snmp group [**__readonly__ TABLE_role** *role_name role_description* [*attribute_scope*] [*permit_vsan*] [*permit_vlan*] [*permit_interface*] [*permit_vrf*] [**TABLE_rule** *rule_num rule_action* {*rule_permission*| *rule_permission_mds*} [*rule_featuretype*] [*rule_entity*]]]

Syntax Description

show	Show running system information
snmp	show snmp information
group	show snmp group
__readonly__	Read Only
TABLE_role	Table displays role
role_name	Type: string Role Name
role_description	Type: string Role Description
attribute_scope	Role scope **global value: 0x00000001** **local value: 0x00000002**
permit_vsan	Type: bitmap permitted vsan
permit_vlan	Type: bitmap
permit_interface	Type: interface-mrange
permit_vrf	Type: string
TABLE_rule	
rule_num	Type: integer min: 1 max: 256
rule_action	**permit value: 1** **deny value: 2**

rule_permission	**read value: 1** **read-write value: 2** **command value: 3**
rule_permission_mds	**show value: 11** **config value: 12** **clear value: 13** **debug value: 14** **exec value: 15**
rule_featuretype	Type: _enum
rule_entity	Type: string

Command Modes

- /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
__readonly__	Read Only
TABLE_host	displays the list of hosts configured for snmp requests
TABLE_vrf_filters	displays the host vrf filters
host	Type: string Host address
port	Type: string port for thehost ip
version	Type: string snmp version
level	Type: string security level
type	Type: string type of snmp request/response
secname	Type: string community name for the snmp req/response
vrf	Type: string VRF Name
vrf_filter	Type: string vrf filters
src_intf	Type: string source interface

Command Modes

- /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
igmpCacheAddress-in	Type: ipaddr igmpCacheAddress
igmpCacheIfIndex-in	Type: integer igmpCacheIfIndex
__readonly__	
TABLE_igmpCacheTable	
igmpCacheAddress-out	Type: ipaddr mib table index igmpCacheAddress
igmpCacheIfIndex-out	Type: integer mib table index igmpCacheIfIndex
igmpCacheSelf	Type: integer mib object igmpCacheSelf
igmpCacheLastReporter	Type: ipaddr mib object igmpCacheLastReporter
igmpCacheUpTime	Type: duration mib object igmpCacheUpTime
igmpCacheExpiryTime	Type: duration mib object igmpCacheExpiryTime
igmpCacheStatus	Type: integer mib object igmpCacheStatus

igmpCacheVersion1HostTimer	Type: duration mib object igmpCacheVersion1HostTimer

Command Modes

- /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
igmpInterfaceIfIndex-in	Type: integer igmpInterfaceIndex
__readonly__	
TABLE_igmpInterfaceTable	
igmpInterfaceIfIndex-out	Type: integer mib table index igmpInterfaceIfIndex
igmpInterfaceQueryInterval	Type: integer mib object igmpInterfaceQueryInterval
igmpInterfaceStatus	Type: integer mib object igmpInterfaceStatus
igmpInterfaceVersion	Type: integer mib object igmpInterfaceVersion
igmpInterfaceQuerier	Type: ipaddr mib object igmpInterfaceQuerier
igmpInterfaceQueryMaxResponseTime	Type: integer mib object igmpInterfaceQueryMaxResponseTime
igmpInterfaceQuerierUpTime	Type: duration mib object igmpInterfaceQuerierUpTime

igmpInterfaceQuerierExpiryTime	Type: duration mib object igmpInterfaceQuerierExpiryTime
igmpInterfaceVersion1QuerierTimer	Type: duration mib object igmpInterfaceVersion1QuerierTimer
igmpInterfaceWrongVersionQueries	Type: integer mib object igmpInterfaceWrongVersionQueries
igmpInterfaceJoins	Type: integer mib object igmpInterfaceJoins
igmpInterfaceProxyIfIndex	Type: integer mib object igmpInterfaceProxyIfIndex
igmpInterfaceGroups	Type: integer mib object igmpInterfaceGroups
igmpInterfaceRobustness	Type: integer mib object igmpInterfaceRobustness
igmpInterfaceLastMembQueryIntvl	Type: integer mib object igmpInterfaceLastMembQueryIntvl

Command Modes

- /exec

show snmp mib pimCandidateRPTable

show snmp mib pimCandidateRPTable [*pimCandidateRPGroupAddress-in*] [*pimCandidateRPGroupMask-in*] [**__readonly__ TABLE_pimCandidateRPTable** *pimCandidateRPGroupAddress-out pimCandidateRPGroupMask-out pimCandidateRPAddress pimCandidateRPRowStatus*]

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimCandidateRPTable	show mib table pimCandidateRPTable
pimCandidateRPGroupAddress-in	Type: ipaddr pimCandidateRPGroupAddress
pimCandidateRPGroupMask-in	Type: ipaddr pimCandidateRPGroupMask
__readonly__	
TABLE_pimCandidateRPTable	
pimCandidateRPGroupAddress-out	Type: ipaddr mib table index pimCandidateRPGroupAddress
pimCandidateRPGroupMask-out	Type: ipaddr mib table index pimCandidateRPGroupMask
pimCandidateRPAddress	Type: ipaddr mib object pimCandidateRPAddress
pimCandidateRPRowStatus	Type: integer mib object pimCandidateRPRowStatus

Command Modes

- /exec

show snmp mib pimComponentTable

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

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimComponentTable	show mib table pimComponentTable
pimComponentIndex-in	Type: integer pimComponentIndex
__readonly__	
TABLE_pimComponentTable	
pimComponentIndex-out	Type: integer mib table index pimComponentIndex
pimComponentBSRAddress	Type: ipaddr mib object pimComponentBSRAddress
pimComponentBSRExpiryTime	Type: duration mib object pimComponentBSRExpiryTime
pimComponentCRPHoldTime	Type: integer mib object pimComponentCRPHoldTime
pimComponentStatus	Type: integer mib object pimComponentStatus

Command Modes

- /exec

show snmp mib pimInterfaceTable

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

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimInterfaceTable	show mib table pimInterfaceTable
pimInterfaceIfIndex-in	Type: integer pimInterfaceIndex
__readonly__	
TABLE_pimInterfaceTable	
pimInterfaceIfIndex-out	Type: integer mib table index pimInterfaceIfIndex
pimInterfaceAddress	Type: ipaddr mib object pimInterfaceAddress
pimInterfaceNetMask	Type: ipaddr mib object pimInterfaceNetMask
pimInterfaceMode	Type: integer mib object pimInterfaceMode
pimInterfaceDR	Type: ipaddr mib object pimInterfaceDR
pimInterfaceHelloInterval	Type: integer mib object pimInterfaceHelloInterval
pimInterfaceStatus	Type: integer mib object pimInterfaceStatus
pimInterfaceJoinPruneInterval	Type: integer mib object pimInterfaceJoinPruneInterval

pimInterfaceCBSRPreference	Type: integer mib object pimInterfaceCBSRPreference

Command Modes

- /exec

show snmp mib pimIpMRouteNextHopTable

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

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteNextHopTable	show mib table pimIpMRouteNextHopTable
ipMRouteNextHopGroup-in	Type: ipaddr ipMRouteNextHopGroup
ipMRouteNextHopSource-in	Type: ipaddr ipMRouteNextHopSource
ipMRouteNextHopSourceMask-in	Type: ipaddr ipMRouteNextHopSourceMask
ipMRouteNextHopIfIndex-in	Type: integer ipMRouteNextHopIfIndex
ipMRouteNextHopAddress-in	Type: ipaddr ipMRouteNextHopAddress
__readonly__	
TABLE_pimIpMRouteNextHopTable	
ipMRouteNextHopGroup-out	Type: integer mib table index ipMRouteNextHopGroup
ipMRouteNextHopSource-out	Type: ipaddr mib table index pimComponentBSRAddress
ipMRouteNextHopSourceMask-out	Type: duration mib table index pimComponentBSRExpiryTime

ipMRouteNextHopIfIndex-out	Type: integer mib table index pimComponentCRPHoldTime
ipMRouteNextHopAddress-out	Type: integer mib table index pimComponentStatus
pimIpMRouteNextHopPruneReason	Type: integer mib object pimIpMRouteNextHopPruneReason

Command Modes

- /exec

show snmp mib pimIpMRouteTable

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

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteTable	show mib table pimIpMRouteTable
ipMRouteGroup-in	Type: ipaddr ipMRouteGroup
ipMRouteSource-in	Type: ipaddr ipMRouteSource
ipMRouteSourceMask-in	Type: ipaddr ipMRouteSourceMask
__readonly__	
TABLE_pimIpMRouteTable	
ipMRouteGroup-out	Type: ipaddr mib table index ipMRouteGroup-out
ipMRouteSource-out	Type: ipaddr mib table index ipMRouteSource-out
ipMRouteSourceMask-out	Type: ipaddr mib table index ipMRouteSourceMask-out
pimIpMRouteUpstreamAssertTimer	Type: duration mib object pimIpMRouteUpstreamAssertTimer
pimIpMRouteAssertMetric	Type: integer mib object pimIpMRouteAssertMetric
pimIpMRouteAssertMetricPref	Type: integer mib object pimIpMRouteAssertMetricPref

pimIpMRouteAssertRPTBit	Type: integer mib object pimIpMRouteAssertRPTBit
pimIpMRouteFlags	Type: string mib object pimIpMRouteFlags

Command Modes

- /exec

show snmp mib pimJoinPruneInterval

show snmp mib pimJoinPruneInterval [**__readonly__** *pimJoinPruneInterval*]

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimJoinPruneInterval	show mib scalar pimJoinPruneInterval
__readonly__	Read Only
pimJoinPruneInterval	Type: integer mib object pimJoinPruneInterval

Command Modes

- /exec

show snmp mib pimNeighborTable

show snmp mib pimNeighborTable [*pimNeighborAddress-in*] [**__readonly__ TABLE_pimNeighborTable** *pimNeighborAddress-out pimNeighborIfIndex pimNeighborUpTime pimNeighborExpiryTime*]

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimNeighborTable	show mib table pimNeighborTable
pimNeighborAddress-in	Type: ipaddr pimNeighborAddress
__readonly__	
TABLE_pimNeighborTable	
pimNeighborAddress-out	Type: ipaddr mib table index pimNeighborAddress
pimNeighborIfIndex	Type: integer mib object pimNeighborIfIndex
pimNeighborUpTime	Type: duration mib object pimNeighborUpTime
pimNeighborExpiryTime	Type: duration mib object pimNeighborExpiryTime

Command Modes

- /exec

show snmp mib pimRPSetTable

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

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimRPSetTable	show mib table pimRPSetTable
pimRPSetComponent-in	Type: integer pimRPSetComponent
pimRPSetGroupAddress-in	Type: ipaddr pimRPSetGroupAddress
pimRPSetGroupMask-in	Type: ipaddr pimRPSetGroupMask
pimRPSetAddress-in	Type: ipaddr pimRPSetAddress
__readonly__	
TABLE_pimRPSetTable	
pimRPSetGroupAddress-out	Type: ipaddr mib table index pimRPSetGroupAddress
pimRPSetGroupMask-out	Type: ipaddr mib table index pimRPSetGroupMask
pimRPSetAddress-out	Type: ipaddr mib table index pimRPSetAddress
pimRPSetHoldTime	Type: duration mib object pimRPSetHoldTime
pimRPSetExpiryTime	Type: duration mib object pimRPSetExpiryTime

pimRPSetComponent-out	Type: integer mib table index pimRPSetComponent

Command Modes

- /exec

show snmp pss

show snmp pss

Syntax Description

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

Command Modes

- /exec

show snmp roledebug

show snmp roledebug

Syntax Description

show	Show running system information
snmp	show snmp information
roledebug	show SNMP roledebug

Command Modes

- /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__	Read Only
TABLE_session	table displays destination
dest	Type: string destination

Command Modes

- /exec

show snmp snmpv3stats

show snmp snmpv3stats

Syntax Description

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

Command Modes

- /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__	Read Only
trap_srcintf	Type: string Displays the source interface for traps
informs_srcintf	Type: string Displays the source interface for informs

Command Modes

- /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__	Read Only
TABLE_snmp_trap	All snmp traps configured
trap_type	Type: string Trap Type
description	Type: string Trap description
isEnabled	Type: string Trap Enabled Status

Command Modes

- /exec

show snmp user

show snmp user [*s0* [**engineID** *s1*]] [**__readonly__** [**TABLE_snmp_users** *user auth priv* [**TABLE_groups** *group*] [*engineID*]]]

Syntax Description

show	Show running system information
snmp	show snmp information
user	show SNMPv3 users
s0	Type: string length: 28 Name of the user
engineID	engineID
s1	Type: string length: 128 Target's SNMP engineID(colon separated) for SNMPv3 inform
__readonly__	Read Only
TABLE_snmp_users	table displays the snmp users
TABLE_groups	table displays the gropus for specific user
user	Type: string user name
auth	Type: string auth type
priv	Type: string priv type
group	Type: string group belongs to
engineID	Type: string engineID for specific user

Command Modes

- /exec

show sockets buffers

show sockets buffers [[**all** *count*] [**free** *count*]]

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
buffers	Display detailed buffer statistics
all	Dump buffers from ALL list
free	Dump buffers from FREE list
count	Type: integer Number of buffers to dump

Command Modes

- /exec

show sockets client

show sockets client [**pid** *pid*] [**tcp**| **udp**| **raw**] **[detail]** [**__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*] [*recvmsg-dispatch*] [*recv-dis-nblock*] [*recvmsg-call*] [*brecv-dispatch*] [*fsendmsg-calls*] [*sendmsg-dispatch*] [*sendmsg-calls*] [*msendmsg-calls*] [*select-calls*] [*select-dispatch*] [*select-need-work*] [*sh-calls*] [*close-calls*] [*fcntl-calls*] [*ioctl-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*] [*recvmsg-err*] [*brcvmsg-err*] [*fsendmsg-err*] [*sendmsg-err*] [*msndmsg-err*] [*select-err*] [*sel-nomem-err*] [*shut-err*] [*close-err*] [*fcntl-err*] [*ioctl-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-nsock-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-rcvmsg-err*] [*pshut-no-soc-err*] [*psetsoc-val-err*] [*psetsoc-inv-val*] [*psetsoc-no-soc-err*] [*psetsoc-sosetopt*] [*pgetsoc-no-socerr*] [*pgetsoc-cp-err*] [*pgetsoc-val-err*] [*pgetsoc-sogt-err*] [*pgtsoc-no-soc-err*] [*pgtsoc-cp-err*] [*pgtsoc-pru-soc-err*] [*pgtsoc-cpout-err*] [*pgtprne-no-soc-err*] [*pgtprne-enot-err*] [*pgtprne-cp-err*] [*pgtprne-pru-pradd*] [*pgtprne-cpout-err*] [*pclose-no-soc-err*] [*pclose-socnull-err*] [*pclose-p-cls2-err*] [*pfcntl-no-soc-err*] [*pfcntl-soc-null*] [*pfcntl-enotsup*] [*pfcntl-einval-err*] [*pioctl-no-soc-err*] [*pioctl-enotsup*] [*pioctl-pru-cntl*] [*pfork-enomem-err*] [*pdup-no-soc-err*] [*pudp-soc-null-err*] [*ha-nomem-err*] [*ha-tlv-err*] [*ha-soc-arg-err*] [*ha-cli-tlv-err*] [*ha-pss-upd-err*] [*ha-no-soc-err*] [*ha-soc-tlv-err*] [*ha-soc-pss-upd*] [*ha-inpcb-tlv*] [*ha-inpcb-pssky*] [*ha-ip-mopt-tlv*] [*ha-ip-mopt-pss*] [*ha-ip6-mopt-tlv*] [*ha-ip6-mopt-pss*] [*ha-tcpcb-tlv*] [*ha-tcpcb-pss*] [*ft-tcp-wblock*] [*ft-send-p-sndmsg*] [*ft-ack-rcv-no-soc*]] [**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	Display specific client process information
pid	Type: integer min: 1 max: 65535 Display client process <pid>
tcp	Display TCP clients

udp	Display UDP clients
raw	Display RAW clients
detail	Display socket details
__readonly__	
TABLE_total_clients	Total no of client sockets
socket-type	Type: string Sockets type
total-clients	Type: longlong
no-total-clients	Type: longlong
TABLE_cl_sk	Display Client sockets
prefix	Type: string Prefix to the sockets
client-name	Type: string Display socket client info
pid	Type: integer min: 1 max: 65535 Display client process <pid>
No-of-clients	Type: longlong Number of socket clients
fast-tcp-mts-ctrl-q	Type: uinteger
cancel-requests	Type: uinteger
cancel-unblocks	Type: uinteger
cancel-misses	Type: uinteger
select-drops	Type: uinteger
select-wakes	Type: uinteger
TABLE_det	Display Socket client Details
fd	Type: integer Client socket fd

client-id	Type: integer Client socket id
mts-sap	Type: integer socket mts addr sap
TABLE_st	Sock detail Ctrl statistics
soc-calls	Type: uinteger
bind-calls	Type: uinteger
listen-calls	Type: uinteger
accept-calls	Type: uinteger
acc-dispat-err	Type: uinteger
connect-calls	Type: uinteger
connec-dispatch	Type: uinteger
recvmsg-dispatch	Type: uinteger
recv-dis-nblock	Type: uinteger
recvmsg-call	Type: uinteger
brecv-dispatch	Type: uinteger
fsendmsg-calls	Type: uinteger
sendmsg-dispatch	Type: uinteger
sendmsg-calls	Type: uinteger
msendmsg-calls	Type: uinteger
select-calls	Type: uinteger
select-dispatch	Type: uinteger
select-need-work	Type: uinteger
sh-calls	Type: uinteger
close-calls	Type: uinteger
fcntl-calls	Type: uinteger
ioctl-calls	Type: uinteger

setsock-calls	Type: uinteger
getsock-calls	Type: uinteger
getsockname-calls	Type: uinteger
getpeer-calls	Type: uinteger
fork-calls	Type: uinteger
execve-calls	Type: uinteger
dup-calls	Type: uinteger
can-calls	Type: uinteger
can-miss	Type: uinteger
can-unblk-sele	Type: uinteger
soc-ha-calls	Type: uinteger
pfork-client	Type: uinteger
read-fd	Type: uinteger
write-fd	Type: uinteger
read-fd-set	Type: uinteger
write-fd-set	Type: uinteger
fast-tcp-send-req	Type: uinteger
fast-tcp-send-suc	Type: uinteger
fast-tcp-ack	Type: uinteger
TABLE_sterr	Client Socket Error Statistics
sock-err	Type: uinteger
sock-nodev-err	Type: uinteger
bind-err	Type: uinteger
lis-err	Type: uinteger
accept-err	Type: uinteger
connect-err	Type: uinteger

recvmsg-err	Type: uinteger
brcvmsg-err	Type: uinteger
fsendmsg-err	Type: uinteger
sendmsg-err	Type: uinteger
msndmsg-err	Type: uinteger
select-err	Type: uinteger
sel-nomem-err	Type: uinteger
shut-err	Type: uinteger
close-err	Type: uinteger
fcntl-err	Type: uinteger
ioctl-err	Type: uinteger
setsoc-err	Type: uinteger
getsoc-err	Type: uinteger
getsocname-err	Type: uinteger
getpeername-err	Type: uinteger
fork-err	Type: uinteger
execve-err	Type: uinteger
dup-err	Type: uinteger
psoc-vrf-err	Type: uinteger
psoc-nosoc-err	Type: uinteger
psoc-sock-null-err	Type: uinteger
psoc-socre-err	Type: uinteger
pbind-nsock-err	Type: uinteger
pbd-getsocaddr	Type: uinteger
pbind-sobind-err	Type: uinteger
plisten-nsoc-err	Type: uinteger

plis-solis-err	Type: uinteger
pacc-nsoc-err	Type: uinteger
pacc-no-nsoc-err	Type: uinteger
pacc-soc-null-err	Type: uinteger
pacc-copy-err	Type: uinteger
pacc-no-acc-err	Type: uinteger
pacc-woublo-err	Type: uinteger
pacc-connabo-err	Type: uinteger
pacc-cond-wait-err	Type: uinteger
pacc-so-err-err	Type: uinteger
pacc-err-err	Type: uinteger
pcon-no-soc-err	Type: uinteger
pcon-ealready-err	Type: uinteger
pconn-getsock	Type: uinteger
pconn-socon-err	Type: uinteger
pconn-einpro-err	Type: uinteger
pconn-con-wait-err	Type: uinteger
psend-no-soc-err	Type: uinteger
psend-inval-iov	Type: uinteger
psend-getsoc-err	Type: uinteger
psend-msg-ctrl-err	Type: uinteger
psend-sockarg-err	Type: uinteger
psend-pru-sosend	Type: uinteger
precv-nosock-err	Type: uinteger
precv-inval-iovlen	Type: uinteger
precv-pru-sorecv	Type: uinteger

precv-cp-msg-err	Type: uinteger
precv-cp-msg-nlen	Type: uinteger
precv-cp-data-err	Type: uinteger
pbrecv-rcvmsg-err	Type: uinteger
pshut-no-soc-err	Type: uinteger
psetsoc-val-err	Type: uinteger
psetsoc-inv-val	Type: uinteger
psetsoc-no-soc-err	Type: uinteger
psetsoc-sosetopt	Type: uinteger
pgetsoc-no-socerr	Type: uinteger
pgetsoc-cp-err	Type: uinteger
pgetsoc-val-err	Type: uinteger
pgetsoc-sogt-err	Type: uinteger
pgtsoc-no-soc-err	Type: uinteger
pgtsoc-cp-err	Type: uinteger
pgtsoc-pru-soc-err	Type: uinteger
pgtsoc-cpout-err	Type: uinteger
pgtprne-no-soc-err	Type: uinteger
pgtprne-enot-err	Type: uinteger
pgtprne-cp-err	Type: uinteger
pgtprne-pru-pradd	Type: uinteger
pgtprne-cpout-err	Type: uinteger
pclose-no-soc-err	Type: uinteger
pclose-socnull-err	Type: uinteger
pclose-p-cls2-err	Type: uinteger
pfcntl-no-soc-err	Type: uinteger

pfcntl-soc-null	Type: uinteger
pfcntl-enotsup	Type: uinteger
pfcntl-einval-err	Type: uinteger
pioctl-no-soc-err	Type: uinteger
pioctl-enotsup	Type: uinteger
pioctl-pru-cntl	Type: uinteger
pfork-enomem-err	Type: uinteger
pdup-no-soc-err	Type: uinteger
pudp-soc-null-err	Type: uinteger
ha-nomem-err	Type: uinteger
ha-tlv-err	Type: uinteger
ha-soc-arg-err	Type: uinteger
ha-cli-tlv-err	Type: uinteger
ha-pss-upd-err	Type: uinteger
ha-no-soc-err	Type: uinteger
ha-soc-tlv-err	Type: uinteger
ha-soc-pss-upd	Type: uinteger
ha-inpcb-tlv	Type: uinteger
ha-inpcb-pssky	Type: uinteger
ha-ip-mopt-tlv	Type: uinteger
ha-ip-mopt-pss	Type: uinteger
ha-ip6-mopt-tlv	Type: uinteger
ha-ip6-mopt-pss	Type: uinteger
ha-tcpcb-tlv	Type: uinteger
ha-tcpcb-pss	Type: uinteger
ft-tcp-wblock	Type: uinteger

ft-send-p-sndmsg	Type: uinteger
ft-ack-rcv-no-soc	Type: uinteger
TABLE_sp_cl	Sock specific Ctrl statistics
can-requests	Type: uinteger
can-unblocks	Type: uinteger
can-misses	Type: uinteger
sel-drops	Type: uinteger
sel-wakes	Type: uinteger

Command Modes

- /exec

show sockets connection

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

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
connection	Display connection information
pid	Display specific client process connection status
pid	Type: integer min: 1 max: 65535 Display client process connection status <pid>
tcp	Display all TCP connections
udp	Display all UDP connections
raw	Display all raw connections
local	Display all TCP connections with specified local address
srcIP	Type: ipaddr Display all TCP connections with specified local address
srcIP6	Type: ipv6addr Display all TCP connections with specified local address
foreign	Display all TCP connections with specified foreign address
dstIP	Type: ipaddr Display all TCP connections with specified foreign address
dstIP6	Type: ipv6addr Display all TCP connections with specified foreign address
detail	Display detailed connection infomation
keydetails	Display md5 key specific details

__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	
afi	**ipv4 value: 1** **ipv6 value: 2** **both value: 3**
TABLE_conn	
prot	Type: string
tcp-state	Type: string
rcv-count	Type: uinteger
laddr	Type: ipaddr
lport	Type: uinteger
faddr	Type: ipaddr
fport	Type: uinteger
intf	Type: string
snd-count	Type: uinteger
type	Type: string
ttl	Type: uinteger
tos	Type: uinteger
options	Type: string
state	Type: string
iss	Type: uinteger
snd-una	Type: uinteger
snd-nxt	Type: uinteger
snd_wnd	Type: uinteger

irs	Type: uinteger
rcv-nxt	Type: uinteger
rcv-wnd	Type: uinteger
snd-cwnd	Type: uinteger
srtt	Type: uinteger
rtt	Type: uinteger
rttvar	Type: uinteger
krtt	Type: uinteger
rttmin	Type: uinteger
mss	Type: uinteger
dur	Type: uinteger
flags	Type: uinteger
md5-cnt	Type: uinteger
md5-host	Type: string
md5-err	Type: uinteger
rcv-hiwat	Type: uinteger
rcv-lowat	Type: uinteger
rcv-flags	Type: uinteger
snd-hiwat	Type: uinteger
snd-lowat	Type: uinteger
snd-flags	Type: uinteger
tcp-count	Type: uinteger
udp-count	Type: uinteger
raw-count	Type: uinteger

Command Modes

- /exec

show sockets keychain-dump

show sockets keychain-dump

Syntax Description

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

Command Modes

- /exec

show sockets performance

show sockets performance [clear]

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
performance	Display detailed perf statistics
clear	Clear perf statistics

Command Modes

- /exec

show sockets statistics

show sockets statistics [**all**| **tcp**| **tcp6**| **tcpsum**| **udp**| **udp6**| **udpsum**| **raw**| **raw6**| **rawsum**] [**__readonly__** **TABLE_vrf** *vrf-name-out* **TABLE_afi** *afi* **TABLE_stat** *version rx-total rx-bad-csum rx-bad-offset rx-too-short rx-bad-md5 rx-inseq-pack rx-inseq-bytes rx-dup-pack rx-dup-bytes rx-partdup-pack rx-partdup-bytes rx-oo-pack rx-oo-bytes rx-afterwin-pack rx-afterwin-bytes rx-afterclose-pack rx-winprobe-pack rx-winupdate-pack rx-dupack-pack rx-dupack-unsent-pack rx-ack-pack rx-ack-bytes 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-conn-init tx-conn-accepted tx-conn-estd tx-rxmt-timeout tx-rxmt-timeout-dropped tx-ka-timeout tx-ka-probe tx-ka-drop closed dropped emb-dropped 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-rcvd raw-rx-no-port raw-rx-full-socket-drop raw-tx-sent*]

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
statistics	Display sockets statistics
all	Display TCP/UDP/RAW v4/v6 protocols statistics
tcp	Display TCP v4 protocol statistics
tcp6	Display TCP v6 protocol statistics
tcpsum	Display sum of TCP v4 and TCP v6 protocols statistics
udp	Display UDP v4 protocol statistics
udp6	Display UDP v6 protocol statistics
udpsum	Display sum of UDP v4 and UDP v6 protocols statistics
raw	Display RAW v4 protocol statistics
raw6	Display RAW v6 protocol statistics
rawsum	Display sum of RAW v4 and RAW v6 protocols statistics
__readonly__	
TABLE_vrf	
vrf-name-out	Type: string
TABLE_afi	

afi	**ipv4 value: 1** **ipv6 value: 2** **both value: 3**

TABLE_stat	
rx-total	Type: uinteger
rx-bad-csum	Type: uinteger
rx-bad-offset	Type: uinteger
rx-too-short	Type: uinteger
rx-bad-md5	Type: uinteger
rx-inseq-pack	Type: uinteger
rx-inseq-bytes	Type: uinteger
rx-dup-pack	Type: uinteger
rx-dup-bytes	Type: uinteger
rx-partdup-pack	Type: uinteger
rx-partdup-bytes	Type: uinteger
rx-oo-pack	Type: uinteger
rx-oo-bytes	Type: uinteger
rx-afterwin-pack	Type: uinteger
rx-afterwin-bytes	Type: uinteger
rx-afterclose-pack	Type: uinteger
rx-winprobe-pack	Type: uinteger
rx-winupdate-pack	Type: uinteger
rx-dupack-pack	Type: uinteger
rx-dupack-unsent-pack	Type: uinteger
rx-ack-pack	Type: uinteger
rx-ack-bytes	Type: uinteger

tx-total	Type: uinteger
tx-urg	Type: uinteger
tx-ctrl	Type: uinteger
tx-data-pack	Type: uinteger
tx-data-bytes	Type: uinteger
tx-reasm-pack	Type: uinteger
tx-reasm-bytes	Type: uinteger
tx-ackonly-pack	Type: uinteger
tx-winprobe-pack	Type: uinteger
tx-winupdate-bytes	Type: uinteger
tx-conn-init	Type: uinteger
tx-conn-accepted	Type: uinteger
tx-conn-estd	Type: uinteger
tx-rxmt-timeout	Type: uinteger
tx-rxmt-timeout-dropped	Type: uinteger
tx-ka-timeout	Type: uinteger
tx-ka-probe	Type: uinteger
tx-ka-drop	Type: uinteger
closed	Type: uinteger
dropped	Type: uinteger
emb-dropped	Type: uinteger
udp-rx-total	Type: uinteger
udp-rx-bad-csum	Type: uinteger
udp-rx-no-csum	Type: uinteger
udp-rx-too-short	Type: uinteger
udp-rx-bad-len	Type: uinteger

udp-rx-no-port	Type: uinteger
udp-rx-no-port-bcast	Type: uinteger
udp-rx-no-port-mcast	Type: uinteger
udp-rx-full-socket-drop	Type: uinteger
udp-tx-total	Type: uinteger
raw-rx-rcvd	Type: uinteger
raw-rx-no-port	Type: uinteger
raw-rx-full-socket-drop	Type: uinteger
raw-tx-sent	Type: uinteger
version	Type: string

Command Modes

- /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 reagarding RPM
__readonly__	
TABLE_keychain	all sockets tcp keychains
keychain	Type: string xml keychain information
handle	Type: hex xml handle information
ref_count	Type: integer xml refcount information

Command Modes

- /exec

show spanning-tree (stp)

show spanning-tree [**vlan** *vlan-id*] {*verbosity*| **active**}+

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
verbosity	verbosity **brief value: 1** Brief summary of interface information **detail value: 2** Detailed information
active	Report on active interfaces only

Command Modes

- /exec

show spanning-tree (stp)

show spanning-tree [**vlan** *vlan-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 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	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
__readonly__	Read Only
TABLE_tree	
tree_id	Type: uinteger Tree Id
tree_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST

tree_protocol	Tree Protocol **invalid value: 0** invalid **default value: 1** default **ieee value: 2** ieee **dec value: 3** dec **ibm value: 4** ibm **vlan-bridge value: 5** vlan-bridge **rstp value: 6** rstp **mstp value: 7** mstp
port_count	Type: uinteger Number of Ports in Tree
bridge_mac	Type: ethernet Bridge Mac
bridge_priority	Type: uinteger Bridge Priority
tree_designated_root	Type: ethernet Designated Root Mac
tree_designated_root_priority	Type: uinteger Designated Root Priority
stp_active	Type: bool Spanning Tree State
root_path_cost	Type: uinteger Root Path Cost

root_port_if_index	Type: interface Root Port
root_port_priority	Type: uinteger Root Port Priority
root_port_number	Type: uinteger Root Port Number
topology_change	Type: bool Topology Change flag is set ?
topology_change_detected	Type: bool Topology Change detected flag is set ?
topology_change_count	Type: uinteger Topology Change Count
topology_change_time_since_last	Type: uinteger Time since last TC
tc_initiator_if_index	Type: interface Topology Change initiator port
max_age	Type: uinteger Max Age
hello_time	Type: uinteger Hello Time
forward_delay	Type: uinteger Forward delay
bridge_max_age	Type: uinteger Configured Bridge Max Age
bridge_hello_time	Type: uinteger Configured Hello Time
bridge_forward_delay	Type: uinteger Configured Forward Delay
hold_time	Type: uinteger Configured Hold Time

hello_timer	Type: uinteger Hello Timer Value
topology_change_timer	Type: uinteger Topology Change Timer Value
tcn_timer	Type: uinteger TCN Timer Value
aging_timer	Type: uinteger Ageing Timer Value
disabled	Type: uinteger Number of ports Disabled
blocking	Type: uinteger Number of ports Blocking
listening	Type: uinteger Number of ports Listening
learning	Type: uinteger Number of ports Learning
forwarding	Type: uinteger Number of ports Forwarding
invalid	Type: uinteger Number of ports Invalid
TABLE_port	
if_index	Type: interface Interface

state	STP Port State **disabled value: 0** disabled **blocking value: 1** blocking **listening value: 2** listening **learning value: 3** learning **forwarding value: 4** forwarding **invalid value: 5** invalid
role	STP Port Role **unknown value: 0** unknown **alternate value: 4** alternate **root value: 2** root **designated value: 3** designated **backup value: 5** backup **master value: 7** master
port_priority	Type: uinteger Port priority
port_number	Type: uinteger Port Number
port_info_tree_id	Type: uinteger Tree Id

port_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
port_protocol	Tree Protocol **invalid value: 0** invalid **default value: 1** default **ieee value: 2** ieee **dec value: 3** dec **ibm value: 4** ibm **vlan-bridge value: 5** vlan-bridge **rstp value: 6** rstp **mstp value: 7** mstp
path_cost	Type: uinteger Cost configured on this port
port_designated_root	Type: ethernet Designated Root Mac
port_designated_root_priority	Type: uinteger Designated Root Priority
designated_cost	Type: uinteger Designated cost

designated_bridge	Type: ethernet Designated bridge mac
designated_bridge_priority	Type: uinteger Designated bridge priority
designated_port	Type: uinteger Designated Port Id
tc_acknowledge	Type: bool Is topology change acknowledge flag set ?
forward_transition_count	Type: uinteger Port transitions to Forwarding
self_looped	Type: bool Is Port self looped ?
inconsistency	Type: uinteger PVST+ Inconsistency Error Flags
bpdus_in	Type: uinteger BPDUs received on this stp port
bpdus_out	Type: uinteger BPDUs send on this stp port
port_fast	Port Fast configured on port **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable **trunk value: 3** trunk **network value: 4** network **edge value: 5** edge

link_type	Link type configured on this port **auto value: 3** auto **p2p value: 1** p2p **shared value: 2** shared
port_guard	Port Guard mode of port **default1 value: 0** default **root value: 1** root **loop value: 2** loop **none value: 3** none
bpdu_guard	Bpdu Guard mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
bpdu_filter	Bpdu Filter mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
oper_portfast	Type: bool Is portfast enabled ?

oper_p2p	Type: bool Is port P2P ?
oper_loopguard	Type: bool Is loopguard enabled ?
oper_bpduguard	Type: bool Is bpduguard enabled ?
oper_bpdufilter	Type: bool Is bpdufilter enabled ?
int_bpdufilter	Type: bool Is internal bpdufilter enabled ?
forward_delay_timer	Type: uinteger Forward Delay timer
hold_timer	Type: uinteger Hold Timer
message_age	Type: uinteger Message age timer
peer	STP protocol of the peer **undetected value: 0** undetected **stp value: 1** stp **rstp value: 2** rstp
dispute	Type: bool Is port Disputed ?
pvstsim_inc_timer	Type: uinteger PVST Simulation Inconsistency Hold Timer
boundary	Type: bool Is port boundary ?
prestd	Type: bool Is port Pre STD MST ?

simulate_pvst	Type: bool Is port is pvst simulate mode ?
oper_networkport	Type: bool Is network port enabled ?
simulate_pvst_cfg	PVST Simulation configured on port **default1 value: 0** default **enabled value: 1** enabled **disabled value: 2** disabled **def_enabled value: 3** enabled by default **def_disabled value: 4** disabled by default

Command Modes

- /exec

show spanning-tree interface (stp)

show spanning-tree [**vlan** *vlan-id*] **interface** *interface-id* {*verbosity*| **active**}+

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
interface	Spanning Tree interface status and configuration
interface-id	Type: interface
verbosity	verbosity **brief value: 1** Brief summary of interface information **detail value: 2** Detailed information
active	Report on active instances only

Command Modes

- /exec

show spanning-tree interface (stp)

show spanning-tree [**vlan** *vlan-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 forward_delay_timer hold_timer message_age peer dispute pvstsim_inc_timer prestd boundary simulate_pvst oper_networkport simulate_pvst_cfg*]

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
interface	Spanning Tree interface status and configuration
interface-id	Type: interface
__readonly__	Read Only
TABLE_port	
if_index	Type: interface Interface
port_info_tree_id	Type: uinteger Tree Id

state	STP Port State **disabled value: 0** disabled **blocking value: 1** blocking **listening value: 2** listening **learning value: 3** learning **forwarding value: 4** forwarding **invalid value: 5** invalid
role	STP Port Role **unknown value: 0** unknown **alternate value: 4** alternate **root value: 2** root **designated value: 3** designated **backup value: 5** backup **master value: 7** master
port_priority	Type: uinteger Port priority
port_number	Type: uinteger Port Number

port_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
port_protocol	Tree Protocol **invalid value: 0** invalid **default value: 1** default **ieee value: 2** ieee **dec value: 3** dec **ibm value: 4** ibm **vlan-bridge value: 5** vlan-bridge **rstp value: 6** rstp **mstp value: 7** mstp
path_cost	Type: uinteger Cost configured on this port
port_designated_root	Type: ethernet Designated Root Mac
port_designated_root_priority	Type: uinteger Designated Root Priority
designated_cost	Type: uinteger Designated cost

designated_bridge	Type: ethernet Designated bridge mac
designated_bridge_priority	Type: uinteger Designated bridge priority
designated_port	Type: uinteger Designated Port Id
tc_acknowledge	Type: bool Is topology change acknowledge flag set ?
forward_transition_count	Type: uinteger Port transitions to Forwarding
self_looped	Type: bool Is Port self looped ?
inconsistency	Type: uinteger PVST+ Inconsistency Error Flags
bpdus_in	Type: uinteger BPDUs received on this stp port
bpdus_out	Type: uinteger BPDUs send on this stp port
port_fast	Port Fast configured on port **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable **trunk value: 3** trunk **network value: 4** network **edge value: 5** edge

link_type	Link type configured on this port **auto value: 3** auto **p2p value: 1** p2p **shared value: 2** shared
port_guard	Port Guard mode of port **default1 value: 0** default **root value: 1** root **loop value: 2** loop **none value: 3** none
bpdu_guard	Bpdu Guard mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
bpdu_filter	Bpdu Filter mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
oper_portfast	Type: bool Is portfast enabled ?

oper_p2p	Type: bool Is port P2P ?
oper_loopguard	Type: bool Is loopguard enabled ?
oper_bpduguard	Type: bool Is bpduguard enabled ?
oper_bpdufilter	Type: bool Is bpdufilter enabled ?
int_bpdufilter	Type: bool Is internal bpdufilter enabled ?
forward_delay_timer	Type: uinteger Forward Delay timer
hold_timer	Type: uinteger Hold Timer
message_age	Type: uinteger Message age timer
peer	STP protocol of the peer **undetected value: 0** undetected **stp value: 1** stp **rstp value: 2** rstp
dispute	Type: bool Is port Disputed ?
pvstsim_inc_timer	Type: uinteger PVST Simulation Inconsistency Hold Timer
boundary	Type: bool Is port boundary ?
prestd	Type: bool Is port Pre STD MST ?

simulate_pvst	Type: bool Is port is pvst simulate mode ?
oper_networkport	Type: bool Is network port enabled ?
simulate_pvst_cfg	PVST Simulation configured on port **default1 value: 0** default **enabled value: 1** enabled **disabled value: 2** disabled **def_enabled value: 3** enabled by default **def_disabled value: 4** disabled by default

Command Modes

- /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 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 prestd* [*designated_ist_master*] [*designated_ist_master_priority*] [*designated_ist_cost*] [*vlan-map*]]

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
mst-id	Type: integer-mrange MST instance range, example: 0-3,5,7-9
__readonly__	Read Only
TABLE_tree	
tree_id	Type: uinteger Tree Id
tree_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST

tree_protocol	Tree Protocol **invalid value: 0** invalid **default value: 1** default **ieee value: 2** ieee **dec value: 3** dec **ibm value: 4** ibm **vlan-bridge value: 5** vlan-bridge **rstp value: 6** rstp **mstp value: 7** mstp
port_count	Type: uinteger Number of Ports in Tree
bridge_mac	Type: ethernet Bridge Mac
bridge_priority	Type: uinteger Bridge Priority
tree_designated_root	Type: ethernet Designated Root Mac
tree_designated_root_priority	Type: uinteger Designated Root Priority
stp_active	Type: bool Spanning Tree State
root_path_cost	Type: uinteger Root Path Cost

root_port_if_index	Type: interface Root Port
root_port_priority	Type: uinteger Root Port Priority
root_port_number	Type: uinteger Root Port Number
topology_change	Type: bool Topology Change flag is set ?
topology_change_detected	Type: bool Topology Change detected flag is set ?
topology_change_count	Type: uinteger Topology Change Count
topology_change_time_since_last	Type: uinteger Time since last TC
tc_initiator_if_index	Type: interface Topology Change initiator port
max_age	Type: uinteger Max Age
hello_time	Type: uinteger Hello Time
forward_delay	Type: uinteger Forward delay
bridge_max_age	Type: uinteger Configured Bridge Max Age
bridge_hello_time	Type: uinteger Configured Hello Time
bridge_forward_delay	Type: uinteger Configured Forward Delay
hold_time	Type: uinteger Configured Hold Time

hello_timer	Type: uinteger Hello Timer Value
topology_change_timer	Type: uinteger Topology Change Timer Value
tcn_timer	Type: uinteger TCN Timer Value
aging_timer	Type: uinteger Ageing Timer Value
disabled	Type: uinteger Number of ports Disabled
blocking	Type: uinteger Number of ports Blocking
listening	Type: uinteger Number of ports Listening
learning	Type: uinteger Number of ports Learning
forwarding	Type: uinteger Number of ports Forwarding
invalid	Type: uinteger Number of ports Invalid
ist-master-id-mac	Type: ethernet IST Master ID MAC address
ist-master-prio	Type: uinteger IST Master ID priority
ist-path-cost	Type: uinteger IST path cost
remaining-hops	Type: uinteger Remaining hops
max-hops	Type: uinteger Max Hops

txholdcount	Type: uinteger TX Hold count
tree-vlan-map	Type: string Bitmap of vlans mapped to tree
TABLE_port	
if_index	Type: interface Interface
state	STP Port State **disabled value: 0** disabled **blocking value: 1** blocking **listening value: 2** listening **learning value: 3** learning **forwarding value: 4** forwarding **invalid value: 5** invalid

role	STP Port Role **unknown value: 0** unknown **alternate value: 4** alternate **root value: 2** root **designated value: 3** designated **backup value: 5** backup **master value: 7** master
port_priority	Type: uinteger Port priority
port_number	Type: uinteger Port Number
port_info_tree_id	Type: uinteger Tree Id
port_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST

port_protocol	Tree Protocol **invalid value: 0** invalid **default value: 1** default **ieee value: 2** ieee **dec value: 3** dec **ibm value: 4** ibm **vlan-bridge value: 5** vlan-bridge **rstp value: 6** rstp **mstp value: 7** mstp
path_cost	Type: uinteger Cost configured on this port
port_designated_root	Type: ethernet Designated Root Mac
port_designated_root_priority	Type: uinteger Designated Root Priority
designated_cost	Type: uinteger Designated cost
designated_bridge	Type: ethernet Designated bridge mac
designated_bridge_priority	Type: uinteger Designated bridge priority
designated_port	Type: uinteger Designated Port Id

tc_acknowledge	Type: bool Is topology change acknowledge flag set ?
forward_transition_count	Type: uinteger Port transitions to Forwarding
self_looped	Type: bool Is Port self looped ?
inconsistency	Type: uinteger PVST+ Inconsistency Error Flags
bpdus_in	Type: uinteger BPDUs received on this stp port
bpdus_out	Type: uinteger BPDUs send on this stp port
port_fast	Port Fast configured on port **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable **trunk value: 3** trunk **network value: 4** network **edge value: 5** edge
link_type	Link type configured on this port **auto value: 3** auto **p2p value: 1** p2p **shared value: 2** shared

port_guard	Port Guard mode of port **default1 value: 0** default **root value: 1** root **loop value: 2** loop **none value: 3** none
bpdu_guard	Bpdu Guard mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
bpdu_filter	Bpdu Filter mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
oper_portfast	Type: bool Is portfast enabled ?
oper_p2p	Type: bool Is port P2P ?
oper_loopguard	Type: bool Is loopguard enabled ?
oper_bpduguard	Type: bool Is bpduguard enabled ?

oper_bpdufilter	Type: bool Is bpdufilter enabled ?
int_bpdufilter	Type: bool Is internal bpdufilter enabled ?
forward_delay_timer	Type: uinteger Forward Delay timer
hold_timer	Type: uinteger Hold Timer
message_age	Type: uinteger Message age timer
peer	STP protocol of the peer **undetected value: 0** undetected **stp value: 1** stp **rstp value: 2** rstp
boundary	Type: bool Is port boundary ?
simulate_pvst	Type: bool Is port is pvst simulate mode ?
dispute	Type: bool Is port Disputed ?
pvstsim_inc_timer	Type: uinteger PVST Simulation Inconsistency Hold Timer
prestd	Type: bool Is port Pre STD MST ?
designated_ist_master	Type: ethernet Ist master mac
designated_ist_master_priority	Type: uinteger Ist master priority

designated_ist_cost	Type: uinteger Ist master path cost
vlan-map	Type: string Bitmap of vlans mapped to port
oper_networkport	Type: bool Is network port enabled ?

Command Modes

- /exec

show spanning-tree mst configuration __readonly__

show spanning-tree mst configuration [**__readonly__** *stp-mode name rev-id* **Instance_to_vlan_map** *mst_id vlan_bit_map* [*pvlan-sync*]]

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
configuration	MST current region configuration
__readonly__	Read Only
stp-mode	Spanning Tree operating mode **rapid-pvst value: 5** Per-Vlan spanning tree mode **mst value: 4** Multiple spanning tree mode
name	Type: string Configuration name
rev-id	Type: uinteger min: 0 max: 65535 Configuration revision number
Instance_to_vlan_map	Instance to vlan mapping Info
mst_id	Type: integer MST Instance ID
vlan_bit_map	Type: bitmap VLAN Bitmap
pvlan-sync	Type: string pvlan synchronization

Command Modes

- /exec

show spanning-tree mst configuration digest __readonly__

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
__readonly__	Read Only
stp-mode	Spanning Tree operating mode **rapid-pvst value: 5** Per-Vlan spanning tree mode **mst value: 4** Multiple spanning tree mode
name	Type: string Configuration name
rev-id	Type: uinteger min: 0 max: 65535 Configuration revision number
digest	Type: string MST region configuration digest
prestd-digest	Type: string MST region configuration pre-std digest
pvlan-sync	Type: string pvlan synchronization

Command Modes

- /exec

show spanning-tree mst detail

show spanning-tree mst [*mst-id*] **detail**

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
mst-id	Type: integer-mrange MST instance range, example: 0-3,5,7-9
detail	Detailed information

Command Modes

- /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 forward_delay_timer hold_timer message_age peer dispute prestd boundary simulate_pvst* [*designated_ist_master*] [*designated_ist_master_priority*] [*designated_ist_cost*] [*vlan-map*] [*oper_networkport*] [*pvstsim_inc_timer*]]

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
mst-id	Type: integer-mrange MST instance range, example: 0-3,5,7-9
interface	Spanning Tree interface status and configuration
interface-id	Type: interface Specify an interface as a target for the command
__readonly__	Read Only
TABLE_port	
if_index	Type: interface Interface
port_info_tree_id	Type: uinteger Tree Id

state	STP Port State **disabled value: 0** disabled **blocking value: 1** blocking **listening value: 2** listening **learning value: 3** learning **forwarding value: 4** forwarding **invalid value: 5** invalid
role	STP Port Role **unknown value: 0** unknown **alternate value: 4** alternate **root value: 2** root **designated value: 3** designated **backup value: 5** backup **master value: 7** master
port_priority	Type: uinteger Port priority
port_number	Type: uinteger Port Number

port_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
port_protocol	Tree Protocol **invalid value: 0** invalid **default value: 1** default **ieee value: 2** ieee **dec value: 3** dec **ibm value: 4** ibm **vlan-bridge value: 5** vlan-bridge **rstp value: 6** rstp **mstp value: 7** mstp
path_cost	Type: uinteger Cost configured on this port
port_designated_root	Type: ethernet Designated Root Mac
port_designated_root_priority	Type: uinteger Designated Root Priority
designated_cost	Type: uinteger Designated cost

designated_bridge	Type: ethernet Designated bridge mac
designated_bridge_priority	Type: uinteger Designated bridge priority
designated_port	Type: uinteger Designated Port Id
tc_acknowledge	Type: bool Is topology change acknowledge flag set ?
forward_transition_count	Type: uinteger Port transitions to Forwarding
self_looped	Type: bool Is Port self looped ?
inconsistency	Type: uinteger PVST+ Inconsistency Error Flags
bpdus_in	Type: uinteger BPDUs received on this stp port
bpdus_out	Type: uinteger BPDUs send on this stp port
port_fast	Port Fast configured on port **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable **trunk value: 3** trunk **network value: 4** network **edge value: 5** edge

link_type	Link type configured on this port **auto value: 3** auto **p2p value: 1** p2p **shared value: 2** shared
port_guard	Port Guard mode of port **default1 value: 0** default **root value: 1** root **loop value: 2** loop **none value: 3** none
bpdu_guard	Bpdu Guard mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
bpdu_filter	Bpdu Filter mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
oper_portfast	Type: bool Is portfast enabled ?

oper_p2p	Type: bool Is port P2P ?
oper_loopguard	Type: bool Is loopguard enabled ?
oper_bpduguard	Type: bool Is bpduguard enabled ?
oper_bpdufilter	Type: bool Is bpdufilter enabled ?
int_bpdufilter	Type: bool Is internal bpdufilter enabled ?
forward_delay_timer	Type: uinteger Forward Delay timer
hold_timer	Type: uinteger Hold Timer
message_age	Type: uinteger Message age timer
peer	STP protocol of the peer **undetected value: 0** undetected **stp value: 1** stp **rstp value: 2** rstp
boundary	Type: bool Is port boundary ?
simulate_pvst	Type: bool Is port is pvst simulate mode ?
dispute	Type: bool Is port Disputed ?
prestd	Type: bool Is port Pre STD MST ?

designated_ist_master	Type: ethernet Ist master mac
designated_ist_master_priority	Type: uinteger Ist master priority
designated_ist_cost	Type: uinteger Ist master path cost
vlan-map	Type: string Bitmap of vlans mapped to port
oper_networkport	Type: bool Is network port enabled ?
pvstsim_inc_timer	Type: uinteger PVST Simulation Inconsistency Hold Timer

Command Modes

- /exec

show spanning-tree mst interface detail

show spanning-tree mst [*mst-id*] **interface** *interface-id* **detail**

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
mst-id	Type: integer-mrange MST instance range, example: 0-3,5,7-9
detail	Detailed information
interface	Spanning Tree interface status and configuration
interface-id	Type: interface Specify an interface as a target for the command

Command Modes

- /exec

show spanning-tree pathcost method

show spanning-tree pathcost method

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
pathcost	Show Spanning pathcost options
method	Default pathcost calculation method

Command Modes

- /exec

show spanning-tree summary

show spanning-tree [**vlan** *vlan-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	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
summary	Summary of port states
__readonly__	Read Only
stp-mode	Spanning Tree operating mode **rapid-pvst value: 5** Per-Vlan spanning tree mode **mst value: 4** Multiple spanning tree mode
stp_tree_root_info	Type: uinteger STP Tree Root info marker
tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST

bridge_mac	Type: ethernet Bridge Mac
bridge_priority	Type: uinteger Bridge Priority
tree_designated_root	Type: ethernet Designated Root Mac
tree_designated_root_priority	Type: uinteger Designated Root Priority
stp_root_bmp_info	Type: uinteger STP root bitmap info marker
stp_root_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
tree_root_bmp	Type: bitmap STP tree root bmp
stp_l2gstp_bmp_info	Type: string L2 Gateway STP bitmap marker
stp_l2gstp_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
stp_l2gstp_bmp	Type: bitmap L2 Gateway STP bitmap

stp_global_info	Type: uinteger STP global info marker
pcost_method	Type: uinteger STP pathcost method
oper_pcost_method	Type: uinteger STP oper pathcost method
port_fast	Port Fast configured on port **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable **trunk value: 3** trunk **network value: 4** network **edge value: 5** edge
bpdu_guard	Bpdu Guard mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable

bpdu_filter	Bpdu Filter mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
oper_loopguard	Type: bool Is loopguard enabled ?
bridge_assurance	Type: uinteger Bridge Assurance
networkport_default	Type: uinteger Network Port default
simulate_pvst	Type: bool Is port is pvst simulate mode ?
max-hops	Type: uinteger Max Hops
peer_switch_cfg	Type: uinteger peer switch configuration status
oper_peer_switch	Type: uinteger peer switch operational status
stp_l2gstp_domain_id	Type: uinteger L2 Gateway STP Domain ID
stp_lite	Type: uinteger STP-Lite
TABLE_tree	
stp_tree_summary	Type: uinteger STP Tree Summary

summary_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
disabled	Type: uinteger Number of ports Disabled
blocking	Type: uinteger Number of ports Blocking
listening	Type: uinteger Number of ports Listening
learning	Type: uinteger Number of ports Learning
forwarding	Type: uinteger Number of ports Forwarding
invalid	Type: uinteger Number of ports Invalid
port_count	Type: uinteger Number of Ports in Tree
stp_summary_totals	Type: uinteger Total num STP trees
total_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST

disabled	Type: uinteger Number of ports Disabled
blocking	Type: uinteger Number of ports Blocking
listening	Type: uinteger Number of ports Listening
learning	Type: uinteger Number of ports Learning
forwarding	Type: uinteger Number of ports Forwarding
invalid	Type: uinteger Number of ports Invalid
port_count	Type: uinteger Number of Ports in Tree

Command Modes

- /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
__readonly__	Read Only
stp-mode	Spanning Tree operating mode **rapid-pvst value: 5** Per-Vlan spanning tree mode **mst value: 4** Multiple spanning tree mode
stp_tree_root_info	Type: uinteger STP Tree Root info marker
tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
bridge_mac	Type: ethernet Bridge Mac
bridge_priority	Type: uinteger Bridge Priority

tree_designated_root	Type: ethernet Designated Root Mac
tree_designated_root_priority	Type: uinteger Designated Root Priority
stp_root_bmp_info	Type: uinteger STP root bitmap info marker
stp_root_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
tree_root_bmp	Type: bitmap STP tree root bmp
stp_l2gstp_bmp_info	Type: string L2 Gateway STP bitmap marker
stp_l2gstp_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
stp_l2gstp_bmp	Type: bitmap L2 Gateway STP bitmap
stp_global_info	Type: uinteger STP global info marker
pcost_method	Type: uinteger STP pathcost method

oper_pcost_method	Type: uinteger STP oper pathcost method
port_fast	Port Fast configured on port **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable **trunk value: 3** trunk **network value: 4** network **edge value: 5** edge
bpdu_guard	Bpdu Guard mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
bpdu_filter	Bpdu Filter mode configured **default1 value: 0** default **enable value: 1** enable **disable value: 2** disable
oper_loopguard	Type: bool Is loopguard enabled ?

bridge_assurance	Type: uinteger Bridge Assurance
networkport_default	Type: uinteger Network Port default
simulate_pvst	Type: bool Is port is pvst simulate mode ?
max-hops	Type: uinteger Max Hops
peer_switch_cfg	Type: uinteger peer switch configuration status
oper_peer_switch	Type: uinteger peer switch operational status
stp_l2gstp_domain_id	Type: uinteger L2 Gateway STP Domain ID
stp_lite	Type: uinteger STP-Lite
stp_summary_totals	Type: uinteger Total num STP trees
total_tree_type	Tree Type **unknown value: 0** UNKNOWN **vlan value: 1** VLAN **mst value: 2** MST
disabled	Type: uinteger Number of ports Disabled
blocking	Type: uinteger Number of ports Blocking
listening	Type: uinteger Number of ports Listening

learning	Type: uinteger Number of ports Learning
forwarding	Type: uinteger Number of ports Forwarding
invalid	Type: uinteger Number of ports Invalid
port_count	Type: uinteger Number of Ports in Tree

Command Modes

- /exec

show spanning-tree vlan (stp)

show spanning-tree [**vlan** *vlan-id*] **blockedports**

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
blockedports	Show blocked ports

Command Modes

- /exec

show spanning-tree vlan (stp)

show spanning-tree [**vlan** *vlan-id*] **inconsistentports**

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
inconsistentports	Show inconsistent ports

Command Modes

- /exec

show spanning-tree vlan (stp)

show spanning-tree [**vlan** *vlan-id*] **bridge** [**priority [system-id]**]| **show spanning-tree** [**vlan** *vlan-id*] **bridge** [**detail**| **brief**]| **show spanning-tree** [**vlan** *vlan-id*] **bridge** [**address**| **forward-time**| **hello-time**| **id**| **max-age**| **protocol**]

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
bridge	Status and configuration of this bridge
address	Mac address of this bridge
forward-time	Forward delay interval
hello-time	Hello time
id	Spanning tree bridge identifier
max-age	Max age
protocol	Spanning tree protocol
brief	Brief summary of the status and configuration output
detail	Detailed of the status and configuration
priority	Bridge priority of this bridge
system-id	Spanning tree priority with system id extension

Command Modes

- /exec

show spanning-tree vlan (stp)

show spanning-tree [**vlan** *vlan-id*] **interface** *interface-id* {**cost**| **inconsistency**| **edge**| **priority**| **rootcost**| **state**}

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
interface	Spanning Tree interface status and configuration
interface-id	Type: interface
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

Command Modes

- /exec

show spanning-tree vlan (stp)

show spanning-tree [**vlan** *vlan-id*] **root** [**priority [system-id]**]| **show spanning-tree** [**vlan** *vlan-id*] **root** [**address**| **cost**| **forward-time**| **hello-time**| **id**| **max-age**| **port**]| **show spanning-tree** [**vlan** *vlan-id*] **root** [**detail**| **brief**]

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	VLAN Switch Spanning Trees
vlan-id	Type: vlan-mrange vlan range, Example: 1,3-5,7,9-11
root	Status and configuration of the root bridge
address	Mac address of this bridge
cost	Path cost from this bridge to the root
forward-time	Forward delay interval
hello-time	Hello time
id	Spanning tree bridge identifier
max-age	Max age
port	Root port
brief	Brief summary of interface information
detail	Detailed information
priority	Bridge priority of this bridge
system-id	Spanning tree priority with system id extension

Command Modes

- /exec

show sprom

show sprom {**backplane** *i0*| **module** *module i1*| **xbar** *santa-cruz-range i2*| **powersupply** *i3*| **fan** *i4*| **sup**| **stby-sup**| **all**} [**__readonly__ cmn_block** *blk_sig_cb blk_ver_cb blk_length_cb blk_checksum_cb eeprom_size blk_count fru_major_type fru_minor_type oem_string prd_num serial_num part_num part_rev mfg_dev hw_rev mfg_bits eng_use snmp_oid power_consump rma_code clei_code vid* **sup_specific_block** *blk_sig_ssb blk_ver_ssb blk_length_ssb blk_checksum_ssb feature_bits hw_changes_bits card_index mac_addresses no_of_macs no_of_epld* **TABLE_epld** *epld_name epld_ver port_type_num max_connector_power cooling_reqt amb_temp* **TABLE_sensor_ssb** *sensor_num_ssb maj_thres_ssb min_thres_ssb* **lc_specific_block** *blk_sig_lc blk_ver_lc blk_length_lc blk_checksum_lc feature_bits hw_changes_bits card_index mac_addresses no_of_macs no_of_epld* **TABLE_epld** *epld_name epld_ver port_type_num max_connector_power cooling_reqt amb_temp* **TABLE_sensor_lc** *sensor_num_lc maj_thres_lc min_thres_lc* **ps_specific_block** *blk_sig_psb blk_ver_psb blk_length_psb blk_checksum_psb feature_bits current_110v current_220v stackmib_oid* **fan_specific_block** *blk_sig_fsb blk_ver_fsb blk_length_fsb blk_checksum_fsb feature_bits hw_change_bits stackmib_oid cooling_capacity amb_temp* **ch_specific_block** *blk_sig_csb blk_ver_csb blk_length_csb blk_checksum_csb feature_bits hw_changes_bits stackmib_oid mac_addresses no_of_macs oem_enterprise oem_mib_offset max_connector_power* **temp_sensor_block** *blk_sig_tsb blk_ver_tsb blk_length_tsb blk_checksum_tsb no_of_sensors* **TABLE_sensor_tsb** *sensor_num_tsb maj_thres_tsb min_thres_tsb* **wwn_specific_block** *blk_sig_wwnb blk_ver_wwnb blk_length_wwnb blk_checksum_wwnb wwn_usage_bits* **lic_specific_block** *blk_sig_licb blk_ver_licb blk_length_licb blk_checksum_licb lic_usage_bits* **second_serial_block** *blk_sig_sn2b blk_ver_sn2b blk_length_sn2b blk_checksum_sn2b serial_num_sn2b* **psu_common_block** *format_version internal_info_offset chassis_info_offset board_info_offset product_info_offset multirecord_info_offset checksum* **psu_board_info_block** *format_version length language_code mfg_date mfg_type mfg_info name_type product_name snum_type snum part_type partnum fruid_type fruid bom_hw_pid_info partnum_rev fab_revision vid clei_len clei eof_marker csum* **psu_product_info_block** *format_version length language_code mfg_type mfg_info name_type product_name part_type partnum product_ver_type sw_certification snum_type snum asset_type asset_string fruid_type fruid custom_pinfo partnumrev vid eof_marker csum* **psu_record_info_block** *record_type record_info record_len record_csum header_csum record_identifier format_ver standby_pwr_budget psu_class psu_watts*]

Syntax Description

show	Show running system information
sprom	show SPROM contents
backplane	show backplane clock module sprom contents
i0	Type: integer min: 1 max: 2 please enter instance of backplane sprom
module	show linecard module sprom contents
module	Type: integer please enter module number

i1	Type: integer min: 1 max: 4 please enter instance of module sprom
xbar	show xbar fabric sprom contents
santa-cruz-range	Type: integer please enter the xbar number
i2	Type: integer min: 1 max: 4 please enter sprom instance number
powersupply	show powersupply sprom contents
i3	Type: integer min: 1 max: 16 please enter powersupply number
fan	show fan module sprom contents
i4	Type: integer min: 1 max: 6 please enter fan number
sup	show supervisor sprom contents
stby-sup	show standby supervisor sprom contents
all	show all sproms contents
__readonly__	
cmn_block	
blk_sig_cb	Type: string
blk_ver_cb	Type: string
blk_length_cb	Type: string
blk_checksum_cb	Type: string
eeprom_size	Type: string
blk_count	Type: string
fru_major_type	Type: string

fru_minor_type	Type: string
oem_string	Type: string
prd_num	Type: string
serial_num	Type: string
part_num	Type: string
part_rev	Type: string
mfg_dev	Type: string
hw_rev	Type: string
mfg_bits	Type: string
eng_use	Type: string
snmp_oid	Type: string
power_consump	Type: string
rma_code	Type: string
clei_code	Type: string
vid	Type: string
ch_specific_block	
blk_sig_csb	Type: string
blk_ver_csb	Type: string
blk_length_csb	Type: string
blk_checksum_csb	Type: string
feature_bits	Type: string
hw_changes_bits	Type: string
stackmib_oid	Type: string
mac_addresses	Type: string
no_of_macs	Type: string
oem_enterprise	Type: string
oem_mib_offset	Type: string

max_connector_power	Type: string
sup_specific_block	
blk_sig_ssb	Type: string
blk_ver_ssb	Type: string
blk_length_ssb	Type: string
blk_checksum_ssb	Type: string
feature_bits	Type: string
hw_changes_bits	Type: string
card_index	Type: string
mac_addresses	Type: string
no_of_macs	Type: string
no_of_epld	Type: string
TABLE_epld	
epld_name	Type: string
epld_ver	Type: string
port_type_num	Type: string
max_connector_power	Type: string
cooling_reqt	Type: string
amb_temp	Type: string
TABLE_sensor_ssb	
sensor_num_ssb	Type: string
maj_thres_ssb	Type: string
min_thres_ssb	Type: string
lc_specific_block	
blk_sig_lc	Type: string
blk_ver_lc	Type: string
blk_length_lc	Type: string

blk_checksum_lc	Type: string
feature_bits	Type: string
hw_changes_bits	Type: string
card_index	Type: string
mac_addresses	Type: string
no_of_macs	Type: string
no_of_epld	Type: string
TABLE_epld	
epld_name	Type: string
epld_ver	Type: string
port_type_num	Type: string
max_connector_power	Type: string
cooling_reqt	Type: string
amb_temp	Type: string
TABLE_sensor_lc	
sensor_num_lc	Type: string
maj_thres_lc	Type: string
min_thres_lc	Type: string
ps_specific_block	
blk_sig_psb	Type: string
blk_ver_psb	Type: string
blk_length_psb	Type: string
blk_checksum_psb	Type: string
feature_bits	Type: string
current_110v	Type: string
current_220v	Type: string
stackmib_oid	Type: string

fan_specific_block	
blk_sig_fsb	Type: string
blk_ver_fsb	Type: string
blk_length_fsb	Type: string
blk_checksum_fsb	Type: string
feature_bits	Type: string
hw_change_bits	Type: string
stackmib_oid	Type: string
cooling_capacity	Type: string
amb_temp	Type: string
temp_sensor_block	
blk_sig_tsb	Type: string
blk_ver_tsb	Type: string
blk_length_tsb	Type: string
blk_checksum_tsb	Type: string
no_of_sensors	Type: string
TABLE_sensor_tsb	
sensor_num_tsb	Type: string
maj_thres_tsb	Type: string
min_thres_tsb	Type: string
wwn_specific_block	
blk_sig_wwnb	Type: string
blk_ver_wwnb	Type: string
blk_length_wwnb	Type: string
blk_checksum_wwnb	Type: string
wwn_usage_bits	Type: string
lic_specific_block	

blk_sig_licb	Type: string
blk_ver_licb	Type: string
blk_length_licb	Type: string
blk_checksum_licb	Type: string
lic_usage_bits	Type: string
second_serial_block	
blk_sig_sn2b	Type: string
blk_ver_sn2b	Type: string
blk_length_sn2b	Type: string
blk_checksum_sn2b	Type: string
serial_num_sn2b	Type: string
psu_common_block	
format_version	Type: string
internal_info_offset	Type: string
chassis_info_offset	Type: string
board_info_offset	Type: string
product_info_offset	Type: string
multirecord_info_offset	Type: string
checksum	Type: string
psu_board_info_block	
format_version	Type: string
length	Type: string
language_code	Type: string
mfg_date	Type: string
mfg_type	Type: string
mfg_info	Type: string
name_type	Type: string

product_name	Type: string
snum_type	Type: string
snum	Type: string
part_type	Type: string
partnum	Type: string
fruid_type	Type: string
fruid	Type: string
bom_hw_pid_info	Type: string
partnum_rev	Type: string
fab_revision	Type: string
vid	Type: string
clei_len	Type: string
clei	Type: string
eof_marker	Type: string
csum	Type: string
psu_product_info_block	
format_version	Type: string
length	Type: string
language_code	Type: string
mfg_type	Type: string
mfg_info	Type: string
name_type	Type: string
product_name	Type: string
part_type	Type: string
partnum	Type: string
product_ver_type	Type: string
sw_certification	Type: string

snum_type	Type: string
snum	Type: string
asset_type	Type: string
asset_string	Type: string
fruid_type	Type: string
fruid	Type: string
custom_pinfo	Type: string
partnumrev	Type: string
vid	Type: string
eof_marker	Type: string
csum	Type: string
psu_record_info_block	
record_type	Type: string
record_info	Type: string
record_len	Type: string
record_csum	Type: string
header_csum	Type: string
record_identifier	Type: string
format_ver	Type: string
standby_pwr_budget	Type: string
psu_class	Type: string
psu_watts	Type: string

Command Modes

- /exec

show sprom fex

show sprom fex *i* {**all**| **backplane**| **powersupply** *i1*}

Syntax Description

show	Show running system information
sprom	SPROM Contents
fex	Fex
i	Type: integer min: 100 max: 199 Enter FEX identifier
all	Show all SPROM content on this specific FEX only
backplane	Show backplane SPROM content on this fex
powersupply	Show powersupply SPROM content on this fex only
i1	Type: integer min: 1 max: 2 powersupply module number

Command Modes

- /exec

show sprom fex all

show sprom fex all

Syntax Description

show	Show running system information
sprom	SPROM Contents
fex	Fex
all	Show all SPROM content all FEX

Command Modes

- /exec

show ssh key

show ssh key [**dsa**| **rsa**] [**__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	Show dsa ssh keys
rsa	Show rsa ssh keys
__readonly__	
TABLE_sessions	ssh key
key_type	Type: string keys type
key_time	Type: string timestamp
key_data	Type: string ssh key data
key_bitcount	Type: string bitcount
key_fingerprint	Type: string fingerprint

Command Modes

- /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
__readonly__	
operation_status	run-time information about ssh
o_status	operational status of ssh server **disabled value: 0** **enabled value: 1**

Command Modes

- /exec

show startup-config

show startup-config

Syntax Description

show	Show running system information
startup-config	Current startup configuration

Command Modes

- /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 Modes

- /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	show startup config with defaults

Command Modes

- /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	show startup config with defaults

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	show startup config with defaults

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	show startup config with defaults

Command Modes

- /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 Modes

- /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	show startup config with defaults

Command Modes

- /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 Modes

- /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	show running config with defaults

Command Modes

- /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	show startup config with defaults

Command Modes

- /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	show running config with defaults

Command Modes

- /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	Display running config with defaults

Command Modes

- /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 Modes

- /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	Display running config with defaults clis

Command Modes

- /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 Modes

- /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

feature-list

Exclude features

aaa value: 111

Exclude startup configuration of aaa

acllog value: 425

Exclude startup configuration of acllog

aclmgr value: 351

Exclude startup configuration of aclmgr

callhome value: 66

Exclude startup configuration of callhome

cdp value: 946

Exclude startup configuration of cdp

cert-enroll value: 169

Exclude startup configuration of cert-enroll

cfs value: 126

Exclude startup configuration of cfs

cmp value: 389

Exclude startup configuration of cmp

diagnostic value: 367

Exclude startup configuration of diagnostic

eem value: 341

Exclude startup configuration of event manager

license value: 106

Exclude startup configuration of license

monitor value: 174

Exclude startup configuration of SPAN sessions

ntp value: 72

Exclude startup configuration of NTP

radius value: 113

Exclude startup configuration of radius

rpm value: 348

Exclude startup configuration of rpm

security value: 55

Exclude startup configuration of security

track value: 379

Exclude startup configuration of track

vshd value: 37

Exclude startup configuration of vshd

spanning-tree value: 171

Exclude startup configuration of Spanning-tree

ipqos value: 377

Exclude startup configuration of IPQOS

copp value: 407

Exclude startup configuration of Copp

dhcp value: 360

Exclude startup configuration of DHCP

wccp value: 494

Exclude startup configuration of WCCP

l2pt value: 745

Exclude startup configuration of L2PT

echat value: 1045

Exclude running configuration of ECHAT

Command Modes

- /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 Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show startup-config fex

show startup-config fex [all]

Syntax Description

show	Show running system information
startup-config	Display the startup configuration
fex	show startup config of fex
all	Show startup config with defaults

Command Modes

- /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 Modes

- /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 Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show startup-config interface (clic)

show startup-config interface *if0* **[membership]**

Syntax Description

show	Show running system information
startup-config	Current startup configuration
interface	Interface configuration
if0	Type: interface-mrange interface type and number in module/slot format
membership	Show membership information

Command Modes

- /exec

show startup-config interface (clic)

show startup-config interface [*if0*]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
interface	Interface configuration
if0	Type: interface-mrange interface type and number in module/slot format

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show startup-config ipqos

show startup-config ipqos [all]

Syntax Description

show	Show running system information
startup-config	Display the startup configuration
ipqos	show startup config for ipqosmgr
all	show startup config with defaults

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show startup-config l2pt

show startup-config l2pt [all]

Syntax Description

show	Show system information
startup-config	System startup configuration
l2pt	Show startup configuration for L2PT
all	Show startup configuration for L2PT with defaults

Command Modes

- /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	Display running config with defaults

Command Modes

- /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 Modes

- /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	show startup config with defaults

Command Modes

- /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	show startup config with defaults

Command Modes

- /exec

show startup-config log

show startup-config log

Syntax Description

show	Show running system information
startup-config	Current startup configuration
log	Displays execution log of last used ascii startup configuration

Command Modes

- /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 Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Show all NTP startup configuration

Command Modes

- /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	Show NVE config with defaults

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /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	show running config with defaults

Command Modes

- /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 Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show startup-config routing 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	Display startup config with defaults clis

Command Modes

- /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	Display startup config with defaults

Command Modes

- /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 Modes

- /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 Modes

- /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	show running config with defaults

Command Modes

- /exec

show startup-config tacacs+

show startup-config "tacacs+"

Syntax Description

show	show startup-cfg
startup-config	show startup system information
tacacs+	Display tacacs configuration

Command Modes

- /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 Modes

- /exec

show startup-config udld

show startup-config udld

Syntax Description

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

Command Modes

- /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 Modes

- /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	show startup config with defaults

Command Modes

- /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 Modes

- /exec

show startup-config vlan (clis)

show startup-config vlan

Syntax Description

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

Command Modes

- /exec

show startup-config vlan (clis)

show startup-config vlan *vlan-id*

Syntax Description

show	Show running system information
startup-config	System startup-config commands
vlan	Vlan commands
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19

Command Modes

- /exec

show startup-config vpc

show startup-config vpc [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
vpc	show startup config for vPC
all	show running config with defaults

Command Modes

- /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
vrf-cfg-name	Type: vrf antipattern: default Configurable VRF name
all	Display running config with defaults clis

Command Modes

- /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	Display running config with defaults clis

Command Modes

- /exec

show startup-config vrrp

show startup-config vrrp

Syntax Description

show	Show system information
startup-config	System startup configuration
vrrp	VRRP startup configuration

Command Modes

- /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 Modes

- /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	Show startup configuration for VTP with defaults

Command Modes

- /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	Virtual Router Context
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
ALL_VRFS_012345678901234	All VRFs
summary	Display summarized information of BGP state
ipv4	Display BGP information for IPv4 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

Command Modes

- /exec

show system auto-collect tech-support

show system auto-collect tech-support

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

Command Modes

- /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__	
content	Type: string Core transfer option

Command Modes

- /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
i0	Type: hex Show description about specific error
__readonly__	
errorid	Type: string
facility	Type: string
desc	Type: string

Command Modes

- /exec

show system exception-info

show system exception-info

Syntax Description

show	Show running system information
system	System-related show commands
exception-info	Show last exception log information

Command Modes

- /exec

show system inband queuing

show system inband queuing {**status**| **statistics**} [**__readonly__** [**TABLE_sys_inband_queue_status** *pm-inband-weigh0 pm-inband-weigh1 pm-inband-weigh2 pm-inband-weigh3 pm-inband-weigh4*] [**TABLE_sys_inband_queue_stats** *inband-pkt-unmap inband-pkt-bpdu-queue inband-pkt-map-q0 inband-pkt-map-q1 inband-pkt-map-q2 inband-pkt-map-q3 klm-pkt-map-bpdu klm-pkt-map-arp klm-pkt-map-q0 klm-pkt-map-q1 klm-pkt-map-q2 klm-pkt-map-q3 klm-pkt-map-veobc queue-name* **TABLE_bpdu_stats** *pm-recv-pkts pm-drop-pkts pm-congested rcvbuf sndbuf pm-no-drop* **TABLE_q_stats** *index-stat i-pm-recv-pkts i-pm-drop-pkts i-pm-congested i-rcvbuf i-sndbuf i-pm-no-drop*]]

Syntax Description

show	Show running system information
system	System-related show commands
inband	Inband Commands
queuing	Inband Queuing commands
status	Selective Packet Discard Information
statistics	Inband statistics
__readonly__	
TABLE_sys_inband_queue_status	system inband queue status
pm-inband-weigh0	Type: integer
pm-inband-weigh1	Type: integer
pm-inband-weigh2	Type: integer
pm-inband-weigh3	Type: integer
pm-inband-weigh4	Type: integer
TABLE_sys_inband_queue_stats	system inband queue stats
inband-pkt-unmap	Type: longlong
inband-pkt-bpdu-queue	Type: longlong
inband-pkt-map-q0	Type: longlong
inband-pkt-map-q1	Type: longlong
inband-pkt-map-q2	Type: longlong
inband-pkt-map-q3	Type: longlong

klm-pkt-map-bpdu	Type: longlong
klm-pkt-map-arp	Type: longlong
klm-pkt-map-q0	Type: longlong
klm-pkt-map-q1	Type: longlong
klm-pkt-map-q2	Type: longlong
klm-pkt-map-q3	Type: longlong
klm-pkt-map-veobc	Type: longlong
queue-name	Type: string
TABLE_bpdu_stats	Bpdu statistics
pm-recv-pkts	Type: integer
pm-drop-pkts	Type: integer
pm-congested	Type: integer
rcvbuf	Type: integer
sndbuf	Type: integer
pm-no-drop	Type: integer
TABLE_q_stats	Bpdu Q statistics
index-stat	Type: integer
i-pm-recv-pkts	Type: integer
i-pm-drop-pkts	Type: integer
i-pm-congested	Type: integer
i-rcvbuf	Type: integer
i-sndbuf	Type: integer
i-pm-no-drop	Type: integer

Command Modes

- /exec

show system kgdb

show system kgdb

Syntax Description

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

Command Modes

- /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	Displays last pss shrink status details
__readonly__	
summary	Type: string PSS shrink summary
TABLE_per_vdc	
vdc_id	Type: string VDC id
TABLE_detail_events	PSS shrink events
service	Type: string Service name
vdc	Type: integer VDC number
event	Type: string PSS evnets
TABLE_events	PSS shrink events
service	Type: string Service name
vdc	Type: integer VDC number

event	Type: string PSS evnets

Command Modes

- /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
__readonly__	
TABLE_ha_status	HA status for all vdcs
vdc_id	Type: string vdc id
this_sup_internal_state	Type: string This Supervisor State
other_sup_internal_state	Type: string Remote Supervisor State

Command Modes

- /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
__readonly__	readonly
rdn_mode_admin	Type: string Redundancy Mode Admin
rdn_mode_oper	Type: string Redundancy Mode Operational
this_sup	Type: string This Supervisor
this_sup_rdn_state	Type: string Redundancy State
this_sup_sup_state	Type: string Supervisor State
this_sup_internal_state	Type: string Supervisor State
other_sup	Type: string Other Supervisor
other_sup_sup_state	Type: string Supervisor State
other_sup_rdn_state	Type: string Redundancy tate

other_sup_internal_state	Type: string Supervisor State

Command Modes

- /exec

show system reset-reason (lcmcli)

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
s0	Type: xbar-str Show xbar module reset reason
santa-cruz-range	Type: integer-range please enter the xbar module number
__readonly__	
TABLE_xbarreason	Reset reason info
slot	Type: string slot
TABLE_rr	reset reason
time	Type: string time
reason	Type: string reset reason
service	Type: string service name
version	Type: string version

Command Modes

- /exec

show system reset-reason (lcmcli)

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__	
TABLE_reason	Reset reason info
slot	Type: string slot
TABLE_rr	reset reason
time	Type: string time
reason	Type: string reset reason
service	Type: string service name
version	Type: string version

Command Modes

- /exec

show system reset-reason fex

show system reset-reason fex *i*

Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
fex	Show fex last reset reason
i	Type: integer min: 100 max: 199 Enter FEX identifier

Command Modes

- /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
module	Type: integer-range please enter module number
__readonly__	
TABLE_reason	Reset reason info
slot	Type: string slot
TABLE_rr	reset reason
time	Type: string time
reason	Type: string reset reason
service	Type: string service name
version	Type: string version

Command Modes

- /exec

show system resources (process)

show system resources *i0*

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
i0	Type: integer min: 1 max: 60 time interval in seconds

Command Modes

- /exec

show system resources (process)

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
__readonly__	
TABLE_cpu_usage	All Cpu Usage Information
load_avg_1min	Type: float Load Average 1 Min
load_avg_5min	Type: float Load Average 5 Min
load_avg_15min	Type: float Load Average 15 Min
processes_total	Type: integer Total processes
processes_running	Type: integer Running Processes
cpu_state_user	Type: float CPU State User
cpu_state_kernel	Type: float CPU State Kernel
cpu_state_idle	Type: float CPU State Idle
cpuid	Type: integer CPU id

user	Type: float user time
kernel	Type: float kernel time
idle	Type: float idle time
memory_usage_total	Type: uinteger Memory Usage Total
memory_usage_used	Type: uinteger Memory Usage Used
memory_usage_free	Type: uinteger Memory Usage Free
current_memory_status	Type: string Current Memory Status

Command Modes

- /exec

show system resources module

show system resources [*i0*] **module** *i1*

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
i0	Type: integer min: 1 max: 60 time interval in seconds
module	Show system resources for specified module
i1	Type: integer min: 1 max: 18 module number

Command Modes

- /exec

show system resources module all

show system resources [*i0*] **module all**

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
i0	Type: integer min: 1 max: 60 time interval in seconds
module	Show system resources for specified module
all	Show system resources for all modules

Command Modes

- /exec

show system routing mode

show system routing mode [**__readonly__ TABLE_system_routing_mode** *system-routing-mode-desc*]

Syntax Description

show	Show running system information
system	Show system information
routing	Show routing related information
mode	Show mode related information
__readonly__	
TABLE_system_routing_mode	the xml system_routing_mode configuration
system-routing-mode-desc	Type: string system routing mode description

Command Modes

- /exec

show system srg

show system srg

Syntax Description

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

Command Modes

- /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__	
content	Type: string Displays system standby manual boot option

Command Modes

- /exec

show system switchover impact

show system switchover impact [*uri0* [*uri1*]]

Syntax Description

show	Show running system information
system	System-related show commands
switchover	Show the software switchover impact between two images
impact	impact {standby_system_uri} {active_system_uri}
uri0	Type: uri Enter standby URI
uri1	Type: uri Enter active URI

Command Modes

- /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
__readonly__	readonly
sys_st_time	Type: string System Start Time
sys_up_days	Type: integer System Uptime Days
sys_up_hrs	Type: integer System Uptime Hours
sys_up_mins	Type: integer System Uptime Minutes
sys_up_secs	Type: integer System Uptime Seconds
kn_up_days	Type: integer Kernel Uptime Days
kn_up_hrs	Type: integer Kernel Uptime Hours
kn_up_mins	Type: integer Kernel Uptime Minutes
kn_up_secs	Type: integer Kernel Uptime Seconds
as_up_days	Type: integer Active Sup Uptime Days

as_up_hrs	Type: integer Active Sup Uptime Hours
as_up_mins	Type: integer Active Sup Uptime Minutes
as_up_secs	Type: integer Active Sup Uptime Seconds

Command Modes

- /exec

show system verify bios

show system verify bios {**flash** *i0* [**module** *module*]| **protection** *i1* [**module1** *module1*]}

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
i0	Type: integer min: 0 max: 1 Select primary or alternate flash
module	Module number
module	Type: integer-range Enter module number
protection	verify bios flash or protection status
i1	Type: integer min: 0 max: 1 Select primary or alternate flash
module1	Module number
module1	Type: integer-range Enter module number

Command Modes

- /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
__readonly__	Read Only
TABLE_vlan	
current_reserved_vlan_start	Type: uinteger System current running reserved vlan start
current_reserved_vlan_end	Type: uinteger System current running reserved vlan end
future_reserved_vlan_start	Type: uinteger System future running reserved vlan start
future_reserved_vlan_end	Type: uinteger System future running reserved vlan end

Command Modes

- /exec

T Show Commands

- show table-map, page 2876
- show tacacs-server (tacacs_dynamic_tree), page 2879
- show tacacs-server (tacacs_dynamic_tree), page 2880
- show tacacs-server directed-request, page 2881
- show tacacs-server groups, page 2882
- show tacacs-server sorted, page 2884
- show tacacs-server statistics, page 2886
- show tech-support, page 2889
- show tech-support aaa, page 2890
- show tech-support aclmgr, page 2891
- show tech-support aclqos, page 2892
- show tech-support aclqos compressed, page 2893
- show tech-support adjmgr, page 2894
- show tech-support all-binary, page 2895
- show tech-support all, page 2896
- show tech-support all binary, page 2897
- show tech-support arp, page 2898
- show tech-support ascii-cfg, page 2899
- show tech-support bfd, page 2900
- show tech-support bgp, page 2901
- show tech-support biosd, page 2902
- show tech-support bloggerd-all, page 2903
- show tech-support bloggerd, page 2904
- show tech-support bootvar, page 2905

- show tech-support brief, page 2906
- show tech-support callhome, page 2907
- show tech-support cdp, page 2908
- show tech-support cert-enroll, page 2909
- show tech-support cfs, page 2910
- show tech-support cli, page 2911
- show tech-support clis, page 2912
- show tech-support clock_manager, page 2913
- show tech-support commands, page 2914
- show tech-support copp, page 2915
- show tech-support details, page 2916
- show tech-support dhcp, page 2917
- show tech-support eem, page 2918
- show tech-support eigrp, page 2919
- show tech-support eltm, page 2920
- show tech-support ethpm, page 2921
- show tech-support fabricpath topology, page 2922
- show tech-support fips, page 2923
- show tech-support forwarding l2 unicast, page 2924
- show tech-support forwarding l3 unicast, page 2925
- show tech-support forwarding l3 unicast detail, page 2926
- show tech-support forwarding l3 unicast detail vdc-all, page 2927
- show tech-support forwarding l3 unicast vdc-all, page 2928
- show tech-support forwarding multicast, page 2929
- show tech-support glbp, page 2930
- show tech-support glbp brief, page 2931
- show tech-support gold, page 2932
- show tech-support gpixm, page 2933
- show tech-support ha, page 2934
- show tech-support ha standby, page 2935
- show tech-support hsrp, page 2936
- show tech-support hsrp brief, page 2937
- show tech-support icmpv6, page 2938

- show tech-support im, page 2939
- show tech-support inband counters, page 2940
- show tech-support include-time, page 2941
- show tech-support interface-vlan, page 2942
- show tech-support ip, page 2943
- show tech-support ip igmp, page 2944
- show tech-support ip igmp snooping, page 2945
- show tech-support ip msdp, page 2946
- show tech-support ip pim, page 2947
- show tech-support ip rsvp, page 2948
- show tech-support ipqos, page 2949
- show tech-support ipv6, page 2950
- show tech-support ipv6 pim, page 2951
- show tech-support isis, page 2952
- show tech-support issu, page 2953
- show tech-support l2, page 2954
- show tech-support l2fm, page 2955
- show tech-support l2fm clients, page 2956
- show tech-support l2fm detail, page 2957
- show tech-support l2fm l2dbg (syscli), page 2958
- show tech-support l2fm l2dbg (syscli), page 2959
- show tech-support l2pt, page 2960
- show tech-support l3vm, page 2961
- show tech-support l3vpn, page 2962
- show tech-support lacp, page 2963
- show tech-support ldap, page 2964
- show tech-support license, page 2965
- show tech-support lldp, page 2966
- show tech-support logging, page 2967
- show tech-support mfwd, page 2968
- show tech-support module, page 2969
- show tech-support module all, page 2970
- show tech-support monitor, page 2971

- show tech-support monitor erspan, page 2972
- show tech-support monitorc-all, page 2973
- show tech-support multicast, page 2974
- show tech-support mvpn, page 2975
- show tech-support netstack, page 2976
- show tech-support netstack detail, page 2977
- show tech-support npacl, page 2978
- show tech-support ntp, page 2979
- show tech-support nve, page 2980
- show tech-support oim, page 2981
- show tech-support onep, page 2982
- show tech-support ospf, page 2983
- show tech-support ospfv3, page 2984
- show tech-support page, page 2985
- show tech-support patch, page 2986
- show tech-support pfstat, page 2987
- show tech-support pixm-all, page 2988
- show tech-support pixm, page 2989
- show tech-support pixmc-all, page 2990
- show tech-support pktmgr, page 2991
- show tech-support platform, page 2992
- show tech-support pltfm-config, page 2993
- show tech-support port-channel, page 2994
- show tech-support port-client-all, page 2995
- show tech-support port, page 2996
- show tech-support private-vlan, page 2997
- show tech-support radius, page 2998
- show tech-support rip, page 2999
- show tech-support routing ip unicast, page 3000
- show tech-support routing ipv6, page 3001
- show tech-support routing multicast, page 3002
- show tech-support rpm, page 3003
- show tech-support sal, page 3004

- show tech-support security, page 3005
- show tech-support session-mgr, page 3006
- show tech-support sksd, page 3007
- show tech-support smm, page 3008
- show tech-support snmp, page 3009
- show tech-support sockets, page 3010
- show tech-support spm, page 3011
- show tech-support statsclient, page 3012
- show tech-support stp, page 3013
- show tech-support sup-filesys, page 3014
- show tech-support sysmgr, page 3015
- show tech-support tacacs+, page 3016
- show tech-support track, page 3017
- show tech-support udld, page 3018
- show tech-support usd-all, page 3019
- show tech-support vdc, page 3020
- show tech-support virtual-service, page 3021
- show tech-support vlan, page 3022
- show tech-support vpc, page 3023
- show tech-support vrrp, page 3024
- show tech-support vrrp brief, page 3025
- show tech-support vxlan, page 3026
- show tech-support xbar, page 3027
- show tech-support xml, page 3028
- show telnet server, page 3029
- show terminal, page 3030
- show time-range, page 3031
- show track, page 3035
- show track brief, page 3039
- show tunnel iftable, page 3042
- show tunnel inetconfigtable, page 3045

show table-map

show table-map [*tmap-name*| *default-tmap-enum-name*] [**__readonly__** [**TABLE_tmap** *tmap-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 *Not available in this release.*
TABLE_tmap	all tmap xml sessions
tmap-name	Type: string length: 40 Show a particular table map

default-tmap-enum-name

cir-markdown-map value: 1

Exceed color markdown map

pir-markdown-map value: 2

Violate color markdown map

cos-dscp-map value: 3

Cos to DSCP Mutation map

cos-precedence-map value: 4

Cos to IP Precedence Mutation map

cos-discard-class-map value: 5

Cos to Discard-class Mutation map

dscp-cos-map value: 6

DSCP to Cos Mutation map

dscp-precedence-map value: 7

DSCP to IP Precedence Mutation map

dscp-discard-class-map value: 8

DSCP to Discard-class Mutation map

precedence-cos-map value: 9

IP Precedence to Cos Mutation map

precedence-dscp-map value: 10

IP Precedence to DSCP Mutation map

precedence-discard-class-map value: 11

IP Precedence to Discard-class Mutation map

discard-class-cos-map value: 12

Discard class to Cos Mutation map

discard-class-dscp-map value: 13

Discard class to DSCP Mutation map

discard-class-precedence-map value: 14

Discard class to IP Precedence Mutation map

exp-cos-map value: 15

exp to cos map

__readonly__

desc	Type: string length: 200 Description string
def-value	Type: uinteger min: 0 max: 63 Unspecified entries will default to this value
def-copy	Type: uinteger min: 0 max: 1 Map unspecified values to equivalent output value
def-ignore	Type: uinteger min: 0 max: 1 Ignore unspecified values
TABLE_list	table map lists
frm-list	Type: integer-mrange Original list of values which are to be mapped
to-val	Type: uinteger min: 0 max: 63 To value

Command Modes

- /exec

show tacacs-server (tacacs_dynamic_tree)

show tacacs-server *host0* [**__readonly__** *host1 tacacs_port shared_key idle_time test_username test_password*]

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
host0	Type: string DNS name or IP address
__readonly__	
host1	Type: string DNS name or IP address
tacacs_port	Type: integer TACACS+ server port
shared_key	Type: string TACACS+ shared secret
test_username	Type: string User name in test packets
test_password	Type: string User password in test packets
idle_time	Type: integer Time interval for monitoring the server

Command Modes

- /exec

show tacacs-server (tacacs_dynamic_tree)

show tacacs-server [**__readonly__** *host0 tacacs_port shared_key idle_time test_username test_password*+]

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
__readonly__	
host0	Type: string DNS name or IP address
tacacs_port	Type: integer TACACS+ server port
shared_key	Type: string TACACS+ shared secret
test_username	Type: string User name in test packets
test_password	Type: string User password in test packets
idle_time	Type: integer Time interval for monitoring the server

Command Modes

- /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__	
tacacs_directedRequest_status	status of tacacs-server directed request **disabled value: 0** **enabled value: 1**

Command Modes

- /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
s0	Type: string length: 127 TACACS+ server group name
__readonly__	
num_of_groups	Type: integer number of groups
TABLE_group	
group_name	Type: string name of the group
TABLE_server	
server_ip	Type: string DNS name or IP address
port	Type: integer TACACS+ server port
dead_time	Type: integer Time interval for which the server is marked as dead before sending a test command
vrf_name	Type: vrf name of the vrf
source_interface	Type: string Interface Description

Command Modes

- /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
__readonly__	
global_secretKey	Type: string Global shared secret
global_timeout	Type: integer Global timeout for tacacs
global_deadtime	Type: integer Global deadtime
global_source_intf	Type: string Tacacs global source interface
global_idle_time	Type: integer Tacacs global idle-time for server monitoring
global_testUsername	Type: string Username of global test parameters
global_testPassword	Type: string Password of global test parameters
server_count	Type: integer Total number of tacacs servers configured
TABLE_server	
server_ip	Type: string Ip address of the server
port	Type: integer Port used for this server

secretKey	Type: string Shared secret between the server and the tacacs client
timeout	Type: integer Timeout for this tacacs server

Command Modes

- /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
host0	Type: string DNS name or IP address
__readonly__	
server_state	Show state of server **alive value: 2** **dead value: 1** **not monitored value: 3**
clock_time	Type: string Show clock time in terms of hours, minutes and seconds
monitoring_statistics	Monitoring Statistics
time_in_pstate	Type: string Time in previous state
ndead	Type: uinteger Number of times dead
tt_in_dstate	Type: string Total time in dead state
auth_statistics	Authentication Statistics
autho_statistics	Authorization Statistics

acct_statistics	Accounting Statistics
auth_failed_transactions	Type: uinteger Authentication: Failed transactions
auth_succ_transactions	Type: uinteger Authentication: Successful transactions
auth_req_sent	Type: uinteger Authentication: Requests sent
auth_req_timedout	Type: uinteger Authentication: Requests timedout
auth_resp_no_match	Type: uinteger Authentication: Responses with no matching requests
auth_resp_not_processed	Type: uinteger Authentication: Responses not processed
auth_resp_error	Type: uinteger Authentication: Responses containing errors
autho_failed_transactions	Type: uinteger Authorization: Failed transactions
autho_succ_transactions	Type: uinteger Authorization: Successful transactions
autho_req_sent	Type: uinteger Authorization: Requests sent
autho_req_timedout	Type: uinteger Authorization: Requests timedout
autho_resp_no_match	Type: uinteger Authorization: Responses with no matching requests
autho_resp_not_processed	Type: uinteger Authorization: Responses not processed
autho_resp_error	Type: uinteger Authorization: Responses containing errors

acct_failed_transactions	Type: uinteger Accounting: Failed transactions
acct_succ_transactions	Type: uinteger Accounting: Successful transactions
acct_req_sent	Type: uinteger Accounting: Requests sent
acct_req_timedout	Type: uinteger Accounting: Requests timedout
acct_resp_no_match	Type: uinteger Accounting: Responses with no matching requests
acct_resp_not_processed	Type: uinteger Accounting: Responses not processed
acct_resp_error	Type: uinteger Accounting: Responses containing errors

Command Modes

- /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	Gather tech-support faster, requires more memory & disk space
forced	Do not check for standby being present

Command Modes

- /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 Modes

- /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	Detailed Tech Support

Command Modes

- /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 Modes

- /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
uri0	Type: uri Enter filename to store

Command Modes

- /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	Brief information

Command Modes

- /exec

show tech-support all-binary

show tech-support all-binary

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all-binary	Dump tech support for all applications in binary

Command Modes

- /exec

show tech-support all

show tech-support all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting

Command Modes

- /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
uri0	Type: uri Select destination filesystem to save the binary output (NOTE: The output file name will be automatically generated and cannot be chosen)

Command Modes

- /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	Brief information

Command Modes

- /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 Modes

- /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 Modes

- /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	Brief information

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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	CFS show tech commands
name	Gather detailed information of cfs for a specified application
cfs-dyn-app-name	Type: string length: 60 Registered name of the local application
commands1	CFS application show tech commands

Command Modes

- /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 Modes

- /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	Detailed information

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show tech-support details

show tech-support details [space-optimized]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
details	Gather detailed information for troubleshooting
space-optimized	Gather tech-support info. using less memory & disk space

Command Modes

- /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 Modes

- /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 Modes

- /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	Brief information

Command Modes

- /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	Detailed information

Command Modes

- /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 Modes

- /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	Brief information

Command Modes

- /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 *Not available in this release.*

Command Modes

- /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	Slot number
module	Type: integer min: 1 max: 16 Module Number

Command Modes

- /exec

show tech-support forwarding l3 unicast

show tech-support forwarding l3 unicast [**module** *module*]

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
module	module
module	Type: integer module number

Command Modes

- /exec

show tech-support forwarding l3 unicast detail

show tech-support forwarding l3 unicast detail [**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
module	module
module	Type: integer module number

Command Modes

- /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	module
module	Type: integer module number

Command Modes

- /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	module
module	Type: integer module number

Command Modes

- /exec

show tech-support forwarding multicast

show tech-support forwarding multicast

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
multicast	multicast

Command Modes

- /exec

show tech-support glbp

show tech-support glbp

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
glbp	Show glbp tech-support information

Command Modes

- /exec

show tech-support glbp brief

show tech-support glbp brief

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
glbp	Show glbp tech-support information
brief	Show glbp tech-support information in brief

Command Modes

- /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 Modes

- /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 Modes

- /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	Show commands executed as part of show tech-support ha commands

Command Modes

- /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	Show commands executed as part of show tech-support ha commands

Command Modes

- /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 Modes

- /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 Modes

- /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	Brief information

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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	Brief information

Command Modes

- /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	Brief information

Command Modes

- /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	Brief information

Command Modes

- /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	Brief information

Command Modes

- /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	Brief information

Command Modes

- /exec

show tech-support ip rsvp

show tech-support ip rsvp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Configure IP features
rsvp	RSVP configuration commands
brief	Brief information

Command Modes

- /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
ipqos	IP QoS Manager
server-only	Dump the tech-support information only from IP QoS Manager server only
all	Dump the tech-support information IP QoS Manager plus brief summary of system
snmp	Dump the tech-support information only from IP QoS Manager server only (SNMP only)

Command Modes

- /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	Brief information

Command Modes

- /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	Brief information

Command Modes

- /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	Brief information

Command Modes

- /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	Show commands executed as part of show tech-support issu command

Command Modes

- /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 Modes

- /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 Modes

- /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	Slot number
module	Type: integer Module Number

Command Modes

- /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	Slot number
module	Type: integer Module Number

Command Modes

- /exec

show tech-support l2fm l2dbg (syscli)

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	Slot number
module	Type: integer Module Number

Command Modes

- /exec

show tech-support l2fm l2dbg (syscli)

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	Slot number *Available only in the 9500 series.*
module	Type: integer Module Number

Command Modes

- /exec

show tech-support l2pt

show tech-support l2pt [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
l2pt	Gather information for l2pt troubleshooting
detail	Show more details

Command Modes

- /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	Brief information

Command Modes

- /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 *Not available in this release.*
brief	Brief information

Command Modes

- /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	Gather detailed information of LACP and related components

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /exec

show tech-support mfwd

show tech-support mfwd [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mfwd	Display MCASTFWD status and configuration
brief	Brief information

Command Modes

- /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
module	Type: integer Enter module number

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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	Display IP information
ipv4	Display IP information
multicast	Display V4 Multicast information

Command Modes

- /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 *Not available in this release.*
brief	Brief information

Command Modes

- /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 Modes

- /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 Modes

- /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	Brief npacl information

Command Modes

- /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 Modes

- /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 Modes

- /exec

show tech-support oim

show tech-support oim [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
oim	Display OIM information
brief	Brief OIM information

Command Modes

- /exec

show tech-support onep

show tech-support onep

Syntax Description

show	Show running system information
tech-support	Diagnostic information for technical support
onep	One Platform

Command Modes

- /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	Brief information

Command Modes

- /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	Brief information

Command Modes

- /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	Gather tech-support faster, requires more memory & disk space
forced	Do not check for standby being present

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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	Brief information

Command Modes

- /exec

show tech-support platform

show tech-support platform

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
platform	Get platform related information

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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	Brief information

Command Modes

- /exec

show tech-support routing ip unicast

show tech-support routing ip unicast [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ip	Display IP information
unicast	Display unicast routing information
brief	Brief information

Command Modes

- /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	Display unicast routing information
brief	Brief information

Command Modes

- /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	Display IP information
ipv4	Display IP information
multicast	Display V4 Multicast information
brief	Display brief information

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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	Brief information

Command Modes

- /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
application	Specify an application **wccp value: 1** **otv value: 2** **erspan value: 3** **vlan value: 5** **po value: 4** **cbts value: 6** **lisp value: 7**
detail	Print more details (e.g. messages,etc)

Command Modes

- /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	Gather info related to one module
module	Type: integer Enter module number

Command Modes

- /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 Modes

- /exec

show tech-support sup-filesys

show tech-support sup-filesys

Syntax Description

show	Show running system informatiom
tech-support	Gather information for troubleshooting
sup-filesys	File-sys related issue

Command Modes

- /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	Show commands executed as part of show tech-support sysmgr

Command Modes

- /exec

show tech-support tacacs+

show tech-support "tacacs+"

Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
tacacs+	Display tacacs information

Command Modes

- /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 Modes

- /exec

show tech-support udld

show tech-support udld

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
udld	Gather detailed information for udld troubleshooting

Command Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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 Modes

- /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__	
operation_status	run-time information about telnet
o_status	operational status of telnet server **disabled value: 0** **enabled value: 1**

Command Modes

- /exec

show terminal

show terminal

Syntax Description

show	Show running system information
terminal	Display terminal configuration parameters

Command Modes

- /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
name	Type: string length: 64 Time range name
__readonly__	
TABLE_timerange	
timerange_name	Type: string length: 64
active	active **inactive value: 0** inactive **active value: 1** active
TABLE_seqno	
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
absolute	
periodic	
remark	Type: string
start_abs_h	Type: integer min: 0 max: 23

start_abs_m	Type: integer min: 0 max: 59
start_abs_s	Type: integer min: 0 max: 59
start_abs_d	Type: integer min: 1 max: 31
start_abs_mon	Type: integer min: 1 max: 12
start_abs_y	Type: integer min: 2000 max: 3000
end_abs_h	Type: integer min: 0 max: 23
end_abs_m	Type: integer min: 0 max: 59
end_abs_s	Type: integer min: 0 max: 59
end_abs_d	Type: integer min: 1 max: 31
end_abs_mon	Type: integer min: 1 max: 12
end_abs_y	Type: integer min: 2000 max: 3000
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday

daily	Every day of the week
weekdays	Monday thru Friday
weekend	Saturday and Sunday
start_per_h	Type: integer min: 0 max: 23
start_per_m	Type: integer min: 0 max: 59
start_per_s	Type: integer min: 0 max: 59
eday	Day of the week **Monday value: 1** Monday **Tuesday value: 2** Tuesday **Wednesday value: 3** Wednesday **Thursday value: 4** Thursday **Friday value: 5** Friday **Saturday value: 6** Saturday **Sunday value: 7** Sunday
end_per_h	Type: integer min: 0 max: 23
end_per_m	Type: integer min: 0 max: 59
end_per_s	Type: integer min: 0 max: 59

Command Modes

- /exec

show track

show track [*object-id*| **interface**| **ip route**| **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_state st_obj_chg_cnt st_last_chg_time st_threshold_info st_track_list_obj st_obj_up_delay st_obj_down_delay st_obj_timer_value show_track_clnt_hdr show_track_clnt_start* **TABLE_track_clnt_info** *st_client_name st_client_iface st_client_group_id show_track_clnt_end st_track_list_info show_track_end*]

Syntax Description

show	Negate a command or set its defaults
track	Tracking information
object-id	Type: uinteger min: 1 max: 500 Tracked object
interface	Interface objects
ip	IPv4 Protocol objects
route	route (ipv4) objects
ipv6	IPv6 Protocol objects
routev6	route (ipv6) objects
list	Tracklist objects
boolean	Boolean Traclist
and	AND boolean objects
or	OR boolean objects
threshold	Threshold parameters
weight	Threshold weight
percentage	Threshold percentage
__readonly__	Read only
show_track_start	Type: uinteger Show track start
TABLE_track_detail	Track table detail

st_obj_id	Type: uinteger Object id
st_obj_type	Object Type **interface value: 0** **route value: 1** **v6route value: 2** **Booleanand value: 3** **Booleanor value: 4** **thresholdweight value: 5** **thresholdpercentage value: 6**
st_obj_instance	Type: string Object instance
st_obj_param	Object parameter **Line-Protocol value: 0** **IP-Routing value: 1** **IPv6-Routing value: 3** **Reachability value: 2** **Booleanandlist value: 4** **Booleanorlist value: 5** **Threshweightlist value: 6** **Threshpercentlist value: 7**
st_obj_state	Object status **UP value: 1** **DOWN value: 0**
st_obj_chg_cnt	Type: uinteger Count of Object state changes

st_last_chg_time	Type: string Timestamp of last change
st_threshold_info	Type: string Threshold Parameters
st_track_list_obj	Type: string Objects part of this list
show_track_clnt_hdr	Type: uinteger Tracked by:
show_track_clnt_start	Type: uinteger Show track client start
TABLE_track_clnt_info	Track client info
st_client_name	Type: string Tracking client name
st_client_iface	Type: interface Tracking client interface
st_client_group_id	Type: uinteger Client group id
show_track_clnt_end	Type: uinteger End of track client
st_track_list_info	Type: string Track list info
st_obj_up_delay	Type: uinteger Delay up notification
st_obj_down_delay	Type: uinteger Delay down notification
st_obj_timer_value	Type: uinteger Current value of timer
show_track_end	Type: uinteger End of Track

Command Modes

- /exec

show track brief

show track [*object-id*| **interface**| **ip route**| **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
object-id	Type: uinteger min: 1 max: 500 Tracked object
interface	Interface objects
ip	IPv4 Protocol objects
route	route (ipv4) objects
ipv6	IPv6 Protocol objects
routev6	route (ipv6) objects
list	Tracklist objects
boolean	Boolean Traclist
and	AND boolean objects
or	OR boolean objects
threshold	Threshold parameters
weight	Threshold weight
percentage	Threshold percentage
brief	Brief output
__readonly__	Read only
show_track_brf_start	Type: uinteger Show track brief start

show_track_brf_all_begin	Type: uinteger Start of all brief
TABLE_track_brief	Track table brief
st_brf_obj_id	Type: uinteger Object id
st_brf_obj_type	Object Type **interface value: 0** **route value: 1** **v6route value: 2** **Booleanand value: 3** **Booleanor value: 4** **Thresholdweight value: 5** **Thresholdpercent value: 6**
st_brf_obj_instance	Type: string Object instance
st_brf_obj_param	Object parameter **Line-Protocol value: 0** **IP-Routing value: 1** **IPV6-Routing value: 3** **Reachability value: 2** **Booleanandlist value: 4** **Booleanorlist value: 5** **Threshweightlist value: 6** **Threshpercentlist value: 7**

st_brf_obj_state	Object status **UP value: 1** **DOWN value: 0**
st_brf_last_chg_time	Type: string Timestamp of last change
show_track_brf_end	Type: uinteger End of Group

Command Modes

- /exec

show tunnel iftable

show tunnel iftable [*ifindex-in*] [**__readonly__ TABLE-tunnelIfTable** *ifindex-out tunnelIfEncapsMethod tunnelIfHopLimit tunnelIfSecurity tunnelIfTOS tunnelIfFlowLabel tunnelIfAddressType tunnelIfLocalInetAddress tunnelIfRemoteInetAddress tunnelIfEncapsLimit*]

Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
iftable	Show tunnel interface table
ifindex-in	Type: integer Tunnel ifindex
__readonly__	
TABLE-tunnelIfTable	Tunnel interface table
ifindex-out	Type: integer Tunnel ifindex

tunnelIfEncapsMethod	Encapsulation Method **other value: 1** **direct value: 2** **gre value: 3** **minimal value: 4** **l2tp value: 5** **pptp value: 6** **l2f value: 7** **udp value: 8** **atmp value: 9** **msdp value: 10** **sixToFour value: 11** **sixOverFour value: 12** **isatap value: 13** **teredo value: 14** **ipHttps value: 15**
tunnelIfHopLimit	Type: integer Hop Limit
tunnelIfSecurity	Security **none value: 1** **ipsec value: 2** **other value: 3**
tunnelIfTOS	Type: integer TOS
tunnelIfFlowLabel	Type: integer Flow Label

tunnelIfAddressType	Address Type **unknown value: 0** **ipv4 value: 1** **ipv6 value: 2** **ipv4z value: 3** **ipv6z value: 4** **dns value: 16**
tunnelIfLocalInetAddress	Type: nameorip Local IP Address
tunnelIfRemoteInetAddress	Type: nameorip Remote IP Address
tunnelIfEncapsLimit	Type: integer Encaps Limit

Command Modes

- /exec

show tunnel inetconfigtable

show tunnel inetconfigtable [*tunnelInetConfigAddressType-in* [*tunnelInetConfigLocalAddress-in* [*tunnelInetConfigRemoteAddress-in* [*tunnelInetConfigEncapsMethod-in* [*tunnelInetConfigID-in*]]]]] [**__readonly__ TABLE-tunnelInetConfigTable** *tunnelInetConfigAddressType-out tunnelInetConfigLocalAddress-out tunnelInetConfigRemoteAddress-out tunnelInetConfigEncapsMethod-out tunnelInetConfigID-out tunnelInetConfigIfIndex tunnelInetConfigStatus tunnelInetConfigStorageType*]

Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
inetconfigtable	Show inet config table
tunnelInetConfigAddressType-in	Address Type **unknown value: 0** **ipv4 value: 1** **ipv6 value: 2** **ipv4z value: 3** **ipv6z value: 4** **dns value: 16**
tunnelInetConfigLocalAddress-in	Type: nameorip Local IP Address
tunnelInetConfigRemoteAddress-in	Type: nameorip Remote IP Addess

tunnelInetConfigEncapsMethod-in	Encapsulation Method **other value: 1** **direct value: 2** **gre value: 3** **minimal value: 4** **l2tp value: 5** **pptp value: 6** **l2f value: 7** **udp value: 8** **atmp value: 9** **msdp value: 10** **sixToFour value: 11** **sixOverFour value: 12** **isatap value: 13** **teredo value: 14** **ipHttps value: 15**
tunnelInetConfigID-in	Type: integer Configuration ID
__readonly__	
TABLE-tunnelInetConfigTable	Tunnel Inet Config Table

tunnelInetConfigAddressType-out	Address Type **unknown value: 0** **ipv4 value: 1** **ipv6 value: 2** **ipv4z value: 3** **ipv6z value: 4** **dns value: 16**
tunnelInetConfigLocalAddress-out	Type: nameorip Local IP Address
tunnelInetConfigRemoteAddress-out	Type: nameorip Remote IP Addess

tunnelInetConfigEncapsMethod-out	Encapsulation Method **other value: 1** **direct value: 2** **gre value: 3** **minimal value: 4** **l2tp value: 5** **pptp value: 6** **l2f value: 7** **udp value: 8** **atmp value: 9** **msdp value: 10** **sixToFour value: 11** **sixOverFour value: 12** **isatap value: 13** **teredo value: 14** **ipHttps value: 15**
tunnelInetConfigID-out	Type: integer Configuration ID
tunnelInetConfigIfIndex	Type: integer If Index

tunnelInetConfigStatus	Row Status **active value: 1** **notInService value: 2** **notReady value: 3** **createAndGo value: 4** **createAndWait value: 5** **destroy value: 6**
tunnelInetConfigStorageType	Storage Type **other value: 1** **volatile value: 2** **nonVolatile value: 3** **permanent value: 4** **readOnly value: 5**

Command Modes

- /exec

U Show Commands

- show udld, page 3052
- show udld global, page 3057
- show udld neighbors, page 3058
- show ulib process, page 3060
- show user-account, page 3061
- show username keypair, page 3062
- show users, page 3063

show udld

show udld [*if0*] [**__readonly__ TABLE_interface** *interface mib-port-status mib-oper-status mib-aggresive-mode admin-port-mode operational-port-mode current-bidirectional-state current-operational-state message-interval timeout-interval no-multiple-neighbor-detected* **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
udld	UDLD status and configuration on one or all interfaces
if0	Type: interface Enter an interface name if only one single interface status is desired
__readonly__	
TABLE_interface	
interface	Type: interface Interface ID
mib-port-status	Port MIB enable status **enabled value: 1** udld is enabled on this port **disabled value: 2** udld is disabled on this port
mib-oper-status	Port MIB Operational status **shutdown value: 1** this port status is shutdown **indeterminant value: 2** this port status is indeterminant **bidirectional value: 3** this port status is bidirectional **notapplicable value: 4** this port status is not applicable

mib-aggresive-mode	Port MIB aggresive mode **enabled value: 1** Aggresive mode is enabled on this port **disabled value: 2** Aggresive mode is disabled on this port
admin-port-mode	Port enable administration configuration setting **unknown value: 0** udld status unknown **enabled value: 1** udld is enabled on this port **disabled value: 2** udld is disabled on this port **enabled-aggressive value: 3** udld is enabled with aggressive mode this port **device-default value: 4** udld follows device default on this port
operational-port-mode	Port enable operational state **enabled value: 1** udld is enabled on this port **disabled value: 2** udld is disabled on this port **enabled-aggressive value: 3** udld is enabled w/ aggresive mode on this port

current-bidirectional-state	Current bidirectional state **unknown value: 0** Neighbor status unknown **unidirectional value: 1** Neighbor status is unidirectional **bidirectional value: 2** Neighbor status is bidirectional **txrxloop value: 3** Neighbor status is in tx-rx loop **mismatch value: 4** Mismatch with neighbor state reported **echoempty value: 5** Neighbors echo is empty
current-operational-state	Current operational state **link-up value: 0** Neighbor status is unidirectional **link-down value: 1** Neighbor status is bidirectional **detection value: 2** Neighbor status is in tx-rx loop **advertisement value: 3** Mismatch with neighbor state reported **disable-port value: 4** Neighbors echo is empty **disable-link-up value: 5** Neighbor status unknown **disable-link-down value: 6** Neighbor status unknown **udld-init value: 7** Neighbor status unknown **extended-detection value: 8** Neighbor status unknown

message-interval	Type: integer UDLD probe messsage interval
timeout-interval	Type: integer UDLD detection timeout interval
no-multiple-neighbor-detected	Type: string No multiple neighbor detected
TABLE_entry	Neighbor entry info
entry-number	Type: integer Neighbor entry number
expiration-time	Type: integer Expiration time
device-id	Type: integer Device ID
neighbor-state	Current neighbor state **unknown value: 0** Neighbor status unknown **unidirectional value: 1** Neighbor status is unidirectional **bidirectional value: 2** Neighbor status is bidirectional **tx-rx-loop value: 3** Neighbor status is in tx-rx loop **neighbor-mismatch value: 4** Mismatch with neighbor state reported **empty-echo value: 5** Neighbors echo is empty
device-name	Type: string Device name
port-id	Type: string Port ID

neighbor-echo-device-number	Type: integer Echo device number
neighbor-echo-device-name	Type: string Echo device name
neighbor-echo-port-number	Type: integer Echo port number
neighbor-echo-port-id	Type: string Echo port ID
neighbor-message-interval	Type: integer UDLD probe messsage interval
neighbor-timeout-interval	Type: integer UDLD detection timeout interval
cdp-device-name	Type: string CDP Device name
pkt-xmt-rec-time	Type: string Last UDLD packet send/recv time
pc-index	Type: string Port channel index

Command Modes

- /exec

show udld global

show udld global [**__readonly__** *udld-global-mode message-interval*]

Syntax Description

show	Show running system information
udld	UDLD protocol
global	UDLD global status and configuration on all interfaces
__readonly__	
udld-global-mode	UDLD global configuration setting **enabled value: 1** udld is gloablly enabled **disabled value: 2** udld is gloablly disabled **enabled-aggressive value: 3** udld is gloablly enabled with aggressive mode
message-interval	Type: integer UDLD probe messsage interval

Command Modes

- /exec

show udld neighbors

show udld 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
udld	UDLD protocol
neighbors	UDLD neighbor interfaces
__readonly__	
TABLE_entry	
local-port-id	Type: interface Local port ID
neighbor-echo-device-name	Type: string Echo device name
device-id	Type: integer Device ID
neighbor-echo-port-id	Type: string Echo port ID
neighbor-state	Current neighbor state **unknown value: 0** Neighbor status unknown **unidirectional value: 1** Neighbor status is unidirectional **bidirectional value: 2** Neighbor status is bidirectional **tx-rx-loop value: 3** Neighbor status is in tx-rx loop **neighbor-mismatch value: 4** Mismatch with neighbor state reported **empty-echo value: 5** Neighbors echo is empty

Command Modes

- /exec

show ulib process

show ulib process [**__readonly__ TABLE_ulib** *ufdm-state urib-state u6rib-state feature-name feature-state time-left total-bytes*]

Syntax Description

show	Show running system information
ulib	Display ULIB status and configuration
process	ULIB Process information
__readonly__	
TABLE_ulib	
ufdm-state	Type: string
urib-state	Type: string State of URIB
u6rib-state	Type: string State of U6RIB
feature-name	Type: string Feature's name
feature-state	Type: string Feature's state
time-left	Type: string Time left
total-bytes	Type: uinteger Total Bytes

Command Modes

- /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	
TABLE_role	
TABLE_keys	
__readonly__	
usr_name	Type: string Name of the user
expire_date	Type: string Expiry date for this user account(in YYYY-MM-DD format)
role	Type: string role/s which the user is to be assigned to
remote_login	Type: string Remote account information for a remote user
sshkey_info	Type: string SSH key information of user
ssh_keys	Type: string SSH key pairs of the user
user-account	Show user information
s0	Type: string length: 28 User name

Command Modes

- /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
s0	Type: string length: 28 user name
__readonly__	
TABLE_sessions	username keypair
t_type	Type: string keys type
t_time	Type: string timestamp
t_keys	Type: string ssh key
t_bitcount	Type: string bitcount
t_fingerprint	Type: string fingerprint

Command Modes

- /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__	
TABLE_sessions	users table
u_name	Type: string user name
t_terminal	Type: string terminal
t_time	Type: string time
t_idle	Type: string idle
p_pid	Type: integer pid
c_comment	Type: string comment

Command Modes

- /exec

V Show Commands

- show vdc, page 3068
- show vdc current-vdc, page 3070
- show vdc fcoe-vlan-range, page 3071
- show vdc resource (res_mgr), page 3072
- show vdc resource (res_mgr), page 3073
- show vdc resource template, page 3075
- show version, page 3076
- show version compatibility, page 3078
- show version fex, page 3079
- show version image, page 3080
- show version module, page 3081
- show version module epld, page 3082
- show virtual-service, page 3083
- show virtual-service storage pool list, page 3087
- show virtual-service tech-support, page 3088
- show virtual-service utilization name, page 3089
- show virtual-service version, page 3092
- show vlan-mgr errors, page 3093
- show vlan-mgr event-history, page 3094
- show vlan, page 3095
- show vlan access-list, page 3098
- show vlan access-map, page 3108
- show vlan all-ports, page 3110
- show vlan counters, page 3112

- show vlan dot1Q tag native, page 3114
- show vlan filter, page 3115
- show vlan id, page 3116
- show vlan id counters, page 3119
- show vlan id vn-segment, page 3121
- show vlan mib private-vlan type, page 3122
- show vlan name, page 3124
- show vlan private-vlan, page 3127
- show vlan private-vlan interface host, page 3128
- show vlan private-vlan interface mapping, page 3129
- show vlan private-vlan interface mode, page 3130
- show vlan private-vlan interface trunk, page 3131
- show vlan private-vlan mapping, page 3133
- show vlan private-vlan type, page 3134
- show vlan reserved, page 3136
- show vlan xbrief, page 3138
- show vlan xsummary, page 3140
- show vpc (mcecm), page 3141
- show vpc (mcecm), page 3146
- show vpc consistency-parameters, page 3160
- show vpc consistency-parameters vlans, page 3161
- show vpc orphan-ports, page 3165
- show vpc peer-keepalive, page 3166
- show vpc role, page 3169
- show vpc statistics, page 3172
- show vpc statistics peer-keepalive, page 3173
- show vrf, page 3174
- show vrf interface, page 3176
- show vrf topology, page 3177
- show vrrp, page 3178
- show vrrp bfd-sessions, page 3182
- show vtp counters, page 3184
- show vtp datafile, page 3186

- show vtp domain id, page 3187
- show vtp interface, page 3189
- show vtp mibstats, page 3190
- show vtp password, page 3191
- show vtp status, page 3192
- show vtp trunk interface, page 3195
- show vtp vlan, page 3197

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
e-vdc2	Type: userdef Enter Virtual Device Context <vdc-id>
detail	Show detailed vdc information
membership	Show vdc interface membership information
shared	Show the shared interfaces in a vdc
membership	Show the shared interfaces in a vdc
module	Show vdc interface membership information for a specific module only
module	Type: integer Show vdc interface membership information for a specific module only
status	Show vdc related port-status
feature-set	Show vdc feature-set information
all	Show offline modules as well
__readonly__	Read Only
detail2	
swmode	Type: string
TABLE_vdc	
vdc_id	Type: uinteger vdc-id
TABLE_port	

port-list	Type: interface port membership for VDC
vdc_name	Type: string vdc-name
state	Type: string state
mac	Type: string mac address for VDC
hap	Type: string hap policy
sw	Type: string sw policy
vtype	Type: string
lc-support	Type: string
create_time	Type: date
reload_count	Type: uinteger
restart_count	Type: uinteger
restart_time	Type: date
restart_reason	Type: string
TABLE_fs	
fs_id	Type: uinteger fs id
fs_name	Type: string
boot_order	Type: integer
prio	Type: integer
prio_per	Type: integer

Command Modes

- /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__	Read Only
mode	Type: uinteger cli mode
name	Type: string vdc name

Command Modes

- /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 *Not available in this release.*
__readonly__	Read Only
fcoe-vdc	Type: uinteger
sharing-vdcs	Type: uinteger
fcoe-vlans	Type: integer-mrange

Command Modes

- /exec

show vdc resource (res_mgr)

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
id	Type: userdef Enter Virtual Device Context <vdc-id>
resource	Show resource configuration for VDC
res-mgr-res-known-name	Type: string Resource name
__readonly__	Read Only
res_name	Type: string Resource Name
min	Type: uinteger Resource min configuration
max	Type: uinteger Resource max configuration
used	Type: uinteger Resource current usage for this VDC
unused	Type: uinteger Resource reserved for this VDC but currently not used
free	Type: uinteger Resource current free for this VDC
TABLE_vdc_resource_single_vdc	

Command Modes

- /exec

show vdc resource (res_mgr)

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
res-mgr-res-known-name	Type: string Resource name
detail	Show detail resource configuration
hidden-too	Also show hidden resources
with-flags	Also show resource flags
__readonly__	Read Only
TABLE_resource	
resource_name	Type: string Resource Name
total_used	Type: uinteger Resource current usage for all VDC
total_unused	Type: uinteger Resources currently reserved but not used across all VDC
total_free	Type: uinteger Resource current free for all VDC
total_avail	Type: uinteger Resource current available across all VDC
total	Type: uinteger Resources grand total
TABLE_vdc_resource_across_vdcs	

vdc_name	Type: string VDC name
min	Type: uinteger Resource min configuration
max	Type: uinteger Resource max configuration
used	Type: uinteger Resource current usage for this VDC
unused	Type: uinteger Resource reserved for this VDC but currently not used
free	Type: uinteger Resource current free for this VDC

Command Modes

- /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
res-mgr-template-known-name-all	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* length: 100 Resource template name
__readonly__	Read Only
TABLE_template	
template_name	Type: string Resource Template Name
TABLE_resource	
resource_name	Type: string Resource Name
min	Type: uinteger Resource min configuration
max	Type: uinteger Resource max configuration

Command Modes

- /exec

show version

show version [**__readonly__** *header_str bios_ver_str* [*loader_ver_str*] *kickstart_ver_str* [*sys_ver_str*] *bios_cmpl_time kick_file_name kick_cmpl_time kick_tmstmp* [*isan_file_name*] [*isan_cmpl_time*] [*isan_tmstmp*] *chassis_id module_id cpu_name memory mem_type proc_board_id host_name bootflash_size* [*slot0_size*] *kern_uptm_days kern_uptm_hrs kern_uptm_mins kern_uptm_secs* [*rr_usecs*] [*rr_ctime*] *rr_reason rr_sys_ver rr_service* [**TABLE_smu_list** *install_smu_id+*] *manufacturer*]

Syntax Description

version	Show the software version
__readonly__	
header_str	Type: string
bios_ver_str	Type: string
loader_ver_str	Type: string
kickstart_ver_str	Type: string
sys_ver_str	Type: string
bios_cmpl_time	Type: string
kick_file_name	Type: string
kick_cmpl_time	Type: string
kick_tmstmp	Type: string
isan_file_name	Type: string
isan_cmpl_time	Type: string
isan_tmstmp	Type: string
chassis_id	Type: string
module_id	Type: string
cpu_name	Type: string
memory	Type: integer
mem_type	Type: string
proc_board_id	Type: string
host_name	Type: string

bootflash_size	Type: integer
slot0_size	Type: integer
kern_uptm_days	Type: integer
kern_uptm_hrs	Type: integer
kern_uptm_mins	Type: integer
kern_uptm_secs	Type: integer
rr_usecs	Type: integer
rr_ctime	Type: date
rr_reason	Type: string
rr_sys_ver	Type: string
rr_service	Type: string
TABLE_smu_list	
install_smu_id	Type: string
manufacturer	Type: string

Command Modes

- /exec

show version compatibility

show version compatibility *uri0*

Syntax Description

show	Show running system information
version	Show the software version
compatibility	Show the software compatibility matrix with given image
uri0	Type: uri Enter URI

Command Modes

- /exec

show version fex

show version fex *i*

Syntax Description

show	Show running system information
version	Show the software version
fex	Show fex software version
i	Type: integer min: 100 max: 199 Enter FEX identifier

Command Modes

- /exec

show version image

show version image *uri0*

Syntax Description

show	Show running system information
version	Show the software version
image	Show the software version of a given image
uri0	Type: uri Enter URI

Command Modes

- /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
module	Type: integer Enter module number
__readonly__	
TABLE_version	Show version info
slot	Type: uinteger Slot
type	Type: string image type
sw	Type: string SW version
interim	Type: string SW interim version
bios	Type: string BIOS version

Command Modes

- /exec

show version module epld

show version module *module* **epld**

Syntax Description

show	Show running system information
version	Show the software version
module	Show the software version of a Module
module	Type: integer Enter module number
epld	Show a module's current EPLD versions

Command Modes

- /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 maximum_vcpus_per_virtual_service machine_types_supported machine_types_disabled* **TABLE_resource_limits** *media_name quota committed available*] [**TABLE_list** *name status package_name*] [**TABLE_detail** *name package_name application_name application_version application_description key_type signing_method licensing_name licensing_version ova_path state 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	Virtual service global information
list	List virtual services
detail	Detailed information
core	Core information
name	Information for a specific virtual service
virt_serv_name	Type: string pattern: [a-zA-Z0-9_]+ length: 20 Name of a virtual service
virt_serv_name_core	Type: string pattern: [a-zA-Z0-9_]+ length: 20 Name of a virtual service
__readonly__	Read Only
infrastructure_major_version	Type: uinteger Infrastructure major version
infrastructure_minor_version	Type: uinteger Infrastructure minor version

total_virtual_services_installed	Type: uinteger Total virtual services installed
total_virtual_services_activated	Type: uinteger Total virtual services activated
maximum_vcpus_per_virtual_service	Type: uinteger Maximum VCPUs per virtual service
machine_types_supported	Type: string Machine types supported
machine_types_disabled	Type: string Machine types disabled
TABLE_resource_limits	Virtual service global resource limits
media_name	Type: string Resource name
quota	Type: uinteger Resource Virtualization quota
committed	Type: uinteger Resource Virtualization committed
available	Type: uinteger Resource Virtualization available
TABLE_list	Virtual service list table
name	Type: string Virtual service name
status	Type: string Virtual service status
package_name	Type: string Virtual service package name
TABLE_detail	Virtual service detail table
name	Type: string Virtual service name

package_name	Type: string Virtual service package name
application_name	Type: string Name of the application
application_version	Type: string Version of the application
application_description	Type: string Description of the application
key_type	Type: string Virtual service key type
signing_method	Type: string Method used to sign the package
licensing_name	Type: string Name of the license
licensing_version	Type: string Version of the license
ova_path	Type: string Virtual service OVA path
state	Type: string Virtual service state
disk_reservation	Type: uinteger Virtual service disk reservation
memory_reservation	Type: uinteger Virtual service memory reservation
cpu_reservation	Type: uinteger Virtual service CPU reservation
TABLE_attached_devices	Attached devices table
type	Type: string Type of the attached device

name	Type: string Name of the attached device
alias	Type: string Alias for the attached device
TABLE_core	Virtual service core table
name	Type: string Virtual service name
name_core	Type: string Name of core

Command Modes

- /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
__readonly__	Read Only
TABLE_storage	Virtual service storage pool list table
pool_name	Type: string Virtual service storage pool name
pool_type	Type: string Virtual service storage pool type
pool_path	Type: string Virtual service storage pool path

Command Modes

- /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 Modes

- /exec

show virtual-service utilization name

show virtual-service utilization name *virt_serv_name* [**__readonly__** [**TABLE_storage** *name alias rd_bytes wr_bytes rd_requests wr_requests errors capacity used available usage*] [**TABLE_network** *name alias rx_packets tx_packets rx_bytes tx_bytes rx_drops tx_drops rx_errors tx_errors*] [**TABLE_memory** *allocation used*] [**TABLE_cpu** *request actual state*]]

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
virt_serv_name	Type: string pattern: [a-zA-Z0-9_]+ length: 20 Name of a virtual service
__readonly__	Read Only
TABLE_storage	Virtual service storage utilization
name	Type: string storage device name
alias	Type: string storage device alias
rd_bytes	Type: uinteger Read Bytes
wr_bytes	Type: uinteger Write Bytes
rd_requests	Type: uinteger Read requests
wr_requests	Type: uinteger Write requests
errors	Type: uinteger errors

capacity	Type: uinteger Capacity 1k blocks
used	Type: uinteger Used 1k blocks
available	Type: uinteger Available 1k blocks
usage	Type: uinteger Usage
TABLE_network	Virtual service network utilization
name	Type: string network device name
alias	Type: string network device alias
rx_packets	Type: uinteger Received packets
tx_packets	Type: uinteger Transmitted packets
rx_bytes	Type: uinteger Received bytes
tx_bytes	Type: uinteger Transmitted bytes
rx_drops	Type: uinteger Received drops
tx_drops	Type: uinteger Transmitted drops
rx_errors	Type: uinteger Received errors
tx_errors	Type: uinteger Trnasmitted errors
TABLE_memory	Virtual service memory utilization

allocation	Type: uinteger Memory allocation
used	Type: uinteger Memory used
TABLE_cpu	Virtual service cpu utilization
request	Type: uinteger Requested Application Utilization
actual	Type: uinteger Actual Application Utilization
state	Type: string CPU state

Command Modes

- /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
virt_serv_name	Type: string pattern: [a-zA-Z0-9_]+ length: 20 Name of a virtual service
__readonly__	Read Only
virt_service_name	Type: string Virtual service name
application_name	Type: string Application name
application_version	Type: string Application version

Command Modes

- /exec

show vlan-mgr errors

show vlan-mgr errors

Syntax Description

show	Show running system information
vlan-mgr	Show vlan manager event history
errors	Show vlan manager errors

Command Modes

- /exec

show vlan-mgr event-history

show vlan-mgr event-history

Syntax Description

show	Show running system information
vlan-mgr	Show vlan manager event history
event-history	Show vlan manager event history

Command Modes

- /exec

show vlan

show vlan [**__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
__readonly__	Read Only
TABLE_vlanbrief	VLAN brief table format
TABLE_mtuinfo	MTU information table format
vlanshowbr-hdr	Type: uinteger VLAN brief header
vlanshowbr-vlanid	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanid-utf	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanname	Type: string VLAN brief VLAN name
vlanshowbr-vlanstate	VLAN brief VLAN state **active value: 1** VLAN Active State **suspend value: 2** VLAN Suspended State
vlanshowbr-shutstate	VLAN brief shutdown state **shutdown value: 1** VLAN shut state **noshutdown value: 2** VLAN no shut state

vlanshowplist-ifidx	Type: interface-mrange Port list ifindex
vlanshowinfo-mtu-hdr	Type: uinteger Vlan info mtu header
vlanshowinfo-vlanid	Type: uinteger Vlan info VLAN ID
vlanshowinfo-media-type	Select media type **enet value: 1** Vlan type Ethernet
vlanshowinfo-vlanmode	VLAN brief VLAN mode **ce-vlan value: 0** Classical Ethernet VLAN mode **fabricpath-vlan value: 1** Fabricpath VLAN mode
vlanshowrspan-hdr1	Type: uinteger RSPAN VLAN header for one VLAN
vlanshowrspan-hdr2	Type: uinteger RSPAN VLAN header for multiple VLANs
vlanshowrspan-vlantype	RSPAN VLAN one VLAN rspan or non-rspan **rspan value: 2** VLAN is RSPAN VLAN **notrspan value: 1** VLAN is not RSPAN VLAN
vlanshowrspan-vlanbitmap	Type: bitmap RSPAN VLAN multiple VLANs
show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker

pvlan-hdr	Type: uinteger private vlan section
pvlan-section	Type: uinteger private vlan section
pvlan-stby	Type: uinteger private vlan section on standby

Command Modes

- /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*]] [*log*] [*capture_session*] [*fragments*] [*plen_op plen1* [*plen2*]] [*urg*] [*ack*] [*psh*] [*rst*] [*syn*] [*fin*] [*established*] [*flow_label*] [*timerange*] [*eth_proto*| *eth_proto_str*] [*vlan*] [*cos*] [*match_count*]| *remark*}]]]

Syntax Description

show	Show running system information
vlan	Vlan commands
access-list	Vlan access list
name	Type: string length: 64 List name
inp_seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
vacl_name	Type: string length: 64 List name
__readonly__	
vacl_seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
TABLE_vacl	
TABLE_list	

ip_ipv6_mac	IP/iIPV6/MAC **ip value: 9** Display IP information **mac value: 11** MAC configuration commands **ipv6 value: 10** Configure IPv6 features
acl_name	Type: string length: 64 Access list name
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
permitdeny	Permit/deny **permit value: 2** Specify packets to forward **deny value: 3** Specify packets to reject
proto	Type: uinteger min: 0 max: 255 A protocol number
TABLE_seqno	
proto_str	Type: string Protocol name
ip	IP **ip value: 1** IP Protocol

ipv6	IPV6 **ipv6 value: 1** IPv6 Protocol
src_any	SRCAny **any value: 1** Any IP address
dest_any	DESTAny **any value: 1** Any IP address
src_ip_prefix	Type: ipprefix Source IP prefix
src_ip_addr	Type: ipaddr Source IP address
src_ip_mask	Type: ipaddr Source IP mask
src_ipv6_prefix	Type: ipv6prefix Source IPv6 prefix
src_ipv6_addr	Type: ipv6addr Source IP address
src_ipv6_mask	Type: ipv6addr Source IP mask
mac_src	Type: ethernet Source MAC address
mac_src_wild	Type: ethernet Source MAC mask
dest_ip_prefix	Type: ipprefix Destination IP prefix
dest_ip_addr	Type: ipaddr Destination IP address

dest_ip_mask	Type: ipaddr Destination IP mask
dest_ipv6_prefix	Type: ipv6prefix Destination IPv6 prefix
dest_ipv6_addr	Type: ipv6addr Destination IP address
dest_ipv6_mask	Type: ipv6addr Destination IP mask
mac_dest	Type: ethernet Destination MAC address
mac_dest_wild	Type: ethernet Destination MAC mask
src_port_op	Source Port operator **lt value: 4** Match only packets with a lower port number **gt value: 5** Match only packets with a greater port number **eq value: 6** Match only packets on a given port number **neq value: 7** Match only packets not on a given port number **range value: 8** Match only packets in the range of port numbers

dest_port_op	Destination Port operator **lt value: 4** Match only packets with a lower port number **gt value: 5** Match only packets with a greater port number **eq value: 6** Match only packets on a given port number **neq value: 7** Match only packets not on a given port number **range value: 8** Match only packets in the range of port numbers
src_port1_str	Type: string Source port name
src_port1_num	Type: uinteger Source port number
src_port2_str	Type: string Source port name
src_port2_num	Type: uinteger Source port number
dest_port1_str	Type: string Destination port name
dest_port1_num	Type: uinteger Destination port number
dest_port2_str	Type: string Destination port name
dest_port2_num	Type: uinteger Destination port number
icmp_type	Type: uinteger ICMP type
icmp_code	Type: uinteger ICMP code

icmp_str	Type: string ICMP message
icmpv6_type	Type: uinteger ICMP type
icmpv6_code	Type: uinteger ICMP code
icmpv6_str	Type: string ICMP message
igmp_type	Type: uinteger IGMP type
igmp_type_str	Type: string IGMP type String
precedence	Type: uinteger precedence
precedence_str	Type: string precedence string
tos	Type: uinteger tos
tos_str	Type: string tos string
dscp	Type: uinteger dscp
dscp_str	Type: string dscp string
capture_session	Type: uinteger min: 1 max: 48 capture session
global_capture_session	Type: uinteger min: 1 max: 48 capture session

log	Log **enable value: 1** Log the packet **disable value: 2** Packet loging disabled
fragments	Fragments **enable value: 1** Match on fragments **disable value: 2** No fragment match
urg	URG **enable value: 1** TCP urg flag set **disable value: 2** TCP urg flag clear
ack	ACK **enable value: 1** TCP ack flag set **disable value: 2** TCP ack flag clear
psh	PSH **enable value: 1** TCP psh flag set **disable value: 2** TCP psh flag clear
rst	RST **enable value: 1** TCP rst flag set **disable value: 2** TCP rst flag clear

syn	SYN **enable value: 1** TCP syn flag set **disable value: 2** TCP syn flag clear
fin	FIN **enable value: 1** TCP fin flag set **disable value: 2** TCP fin flag clear
established	ESTABLISHED **enable value: 1** TCP established connection **disable value: 2** TCP not established connection
flow_label	Type: uinteger IPv6 flow label
timerange	Type: string Time-range
eth_proto	Type: hex MAC protocol number
eth_proto_str	Type: string MAC protocol name
vlan	Type: integer min: 0 max: 4095 VLAN number
cos	Type: integer min: 0 max: 7 CoS value
match_count	Type: longlong Number of packets matching the ACL

remark	Type: string Remark String
statistics	STATISTICS **enable value: 1** Statistics enabled for ACL **disable value: 2** Statistics not enabled for ACL
src_addrgrp	Type: string Source address group
dest_addrgrp	Type: string Destination address group
src_portgrp	Type: string Source port group
dest_portgrp	Type: string Destination port group
plen_op	Source Port operator **lt value: 4** Match only packets with a lower packet length **gt value: 5** Match only packets with a greater packet length **eq value: 6** Match only packets on a given packet length **neq value: 7** Match only packets not on a given packet length **range value: 8** Match only packets in the range of packet lengths
plen1	Type: uinteger Packet length minimum
plen2	Type: uinteger packet length maximum

Command Modes

- /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
name	Type: string length: 64 List name
vacl_name	Type: string length: 64 List name
__readonly__	
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
TABLE_vacl	
TABLE_seqno	
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number
ip_ipv6_mac	IP/iIPV6/MAC **ip value: 9** Display IP information **mac value: 11** MAC configuration commands **ipv6 value: 10** Display IPv6 information

match_name	Type: string length: 64 Access list name
action_drop	DROP **drop value: 1** DROP action
action_log	LOG **log value: 1** Log the packet
action_fwd	FWD **forward value: 1** FWD the packet
action_capture	CAPTURE **capture value: 1** Capture the packet
action_redirect	REDIRECT **redirect value: 1** Redirect the packet
intf	Type: interface Interface traffic is redirected to
statistics	STATISTICS **enable value: 1** Statistics enabled for Vlan access-list **disable value: 2** Statistics not enabled for vlan access-list

Command Modes

- /exec

show vlan all-ports

show vlan all-ports [**__readonly__** *vlanshowbr-hdr* **TABLE_vlanbriefallports** *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
all-ports	Show all ports on VLAN
__readonly__	Read Only
TABLE_vlanbriefallports	VLAN brief table format
vlanshowbr-hdr	Type: uinteger VLAN brief header
vlanshowbr-vlanid	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanid-utf	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanname	Type: string VLAN brief VLAN name
vlanshowbr-vlanstate	VLAN brief VLAN state **active value: 1** VLAN Active State **suspend value: 2** VLAN Suspended State
vlanshowbr-shutstate	VLAN brief shutdown state **shutdown value: 1** VLAN shut state **noshutdown value: 2** VLAN no shut state

vlanshowplist-ifidx	Type: interface-mrange Port list ifindex
show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker

Command Modes

- /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*]]

Syntax Description

show	Show running system information
vlan	Vlan commands
counters	display counters
__readonly__	Read Only
TABLE_vlancounters	vlan counters table format
vlanshowbr-vlanid	Type: uinteger VLAN brief VLAN ID
l2_ing_ucast_b	Type: longlong L2 Ingress unicast octets
l2_ing_ucast_p	Type: longlong L2 Ingress unicast packets
l2_ing_mcast_b	Type: longlong L2 Ingress multicast octets
l2_ing_mcast_p	Type: longlong L2 Ingress multicast packets
l2_ing_bcast_b	Type: longlong L2 Ingress broadcast octets
l2_ing_bcast_p	Type: longlong L2 Ingress broadcast packets
l2_egr_ucast_b	Type: longlong L2 Egress unicast octets
l2_egr_ucast_p	Type: longlong L2 Egress unicast packets

l3_ucast_rcv_b	Type: longlong L3 unicast octets in
l3_ucast_rcv_p	Type: longlong L3 unicast packets in

Command Modes

- /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
__readonly__	Read Only
tag_native_mode	Native vlan tagging mode **disabled value: 0** Vlan dot1Q tag native is disabled **enabled value: 1** Vlan dot1Q tag native is enabled

Command Modes

- /exec

show vlan filter

show vlan filter [**access-map** *name*| **vlan** *vlan*] [**__readonly__ TABLE_vlan_filter** *name configured_vlans*]

Syntax Description

show	Show running system information
vlan	Vlan commands
filter	Information about VLAN filters
access-map	Show the VLANs where an access-map is applied
name	Type: string length: 64 List name
vlan	Show the access-map applied to a VLAN
vlan	Type: vlan VLAN number
__readonly__	
TABLE_vlan_filter	
configured_vlans	Type: integer-mrange VLAN numbers

Command Modes

- /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
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
__readonly__	Read Only
TABLE_vlanbriefid	VLAN brief table format
TABLE_mtuinfoid	MTU information table format
vlanshowbr-hdr	Type: uinteger VLAN brief header
vlanshowbr-vlanid	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanid-utf	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanname	Type: string VLAN brief VLAN name
vlanshowbr-vlanstate	VLAN brief VLAN state **active value: 1** VLAN Active State **suspend value: 2** VLAN Suspended State

vlanshowbr-shutstate	VLAN brief shutdown state **shutdown value: 1** VLAN shut state **noshutdown value: 2** VLAN no shut state
vlanshowplist-ifidx	Type: interface-mrange Port list ifindex
vlanshowinfo-mtu-hdr	Type: uinteger Vlan info mtu header
vlanshowinfo-vlanid	Type: uinteger Vlan info VLAN ID
vlanshowinfo-media-type	Select media type **enet value: 1** Vlan type Ethernet
vlanshowinfo-vlanmode	VLAN brief VLAN mode **ce-vlan value: 0** Classical Ethernet VLAN mode **fabricpath-vlan value: 1** Fabricpath VLAN mode
vlanshow-vlanerrbitmap	Type: bitmap VLAN error bitmap
vlanshowrspan-hdr1	Type: uinteger RSPAN VLAN header for one VLAN
vlanshowrspan-hdr2	Type: uinteger RSPAN VLAN header for multiple VLANs
vlanshowrspan-vlantype	RSPAN VLAN one VLAN rspan or non-rspan **rspan value: 2** VLAN is RSPAN VLAN **notrspan value: 1** VLAN is not RSPAN VLAN

vlanshowrspan-vlanbitmap	Type: bitmap RSPAN VLAN multiple VLANs
show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker
pvlan-hdr	Type: uinteger private vlan section
pvlan-id-section	Type: uinteger private id vlan section
pvlan-stby	Type: uinteger private vlan section on standby
is-vtp-manageable	Type: bool VTP Manageable VLAN flag
is-internal	Type: bool Internal VLAN flag
is-reserved	Type: bool Reserved VLAN flag
is-rspan	Type: bool RSPAN VLAN flag
is-dynamic-gvrp	Type: bool Dynamic GVRP VLAN flag

Command Modes

- /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*]]

Syntax Description

show	Show running system information
vlan	Vlan commands
id	VLAN status by VLAN id
counters	display counters
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
__readonly__	Read Only
TABLE_vlancounters	vlan counters table format
vlanshowbr-vlanid	Type: uinteger VLAN brief VLAN ID
l2_ing_ucast_b	Type: longlong L2 Ingress unicast octets
l2_ing_ucast_p	Type: longlong L2 Ingress unicast packets
l2_ing_mcast_b	Type: longlong L2 Ingress multicast octets
l2_ing_mcast_p	Type: longlong L2 Ingress multicast packets
l2_ing_bcast_b	Type: longlong L2 Ingress broadcast octets
l2_ing_bcast_p	Type: longlong L2 Ingress broadcast packets
l2_egr_ucast_b	Type: longlong L2 Egress unicast octets

l2_egr_ucast_p	Type: longlong L2 Egress unicast packets

Command Modes

- /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
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
__readonly__	Read Only
TABLE_seginfoid	Segment id information table format
vlanshowinfo-segid-hdr	Type: uinteger Vlan info segment id header
vlanshowinfo-seg-vlanid	Type: uinteger Vlan info VLAN ID
vlanshowinfo-segment-id	Type: uinteger Vlan info SEGMENT ID
show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker

Command Modes

- /exec

show vlan mib private-vlan type

show vlan [**id** *vlan-id*] **mib private-vlan type** [**__readonly__** *start vlan pvlan-type primary*]

Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
type	Private VLAN type information
mib	mib
__readonly__	Read Only
start	Type: uinteger Start
vlan	Type: uinteger vlan
pvlan-type	**normal value: 1** normal **primary value: 2** Primary PVLAN **isolated value: 3** Isolated PVLAN **community value: 4** Community PVLAN
primary	Type: uinteger associated to primary

Command Modes

- /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_mtuinfoname** *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	Type: string length: 128 A VLAN name
__readonly__	Read Only
TABLE_vlanbriefname	VLAN brief table format
TABLE_mtuinfoname	MTU information table format
vlanshowbr-hdr	Type: uinteger VLAN brief header
vlanshowbr-vlanid	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanid-utf	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanname	Type: string VLAN brief VLAN name
vlanshowbr-vlanstate	VLAN brief VLAN state **active value: 1** VLAN Active State **suspend value: 2** VLAN Suspended State

vlanshowbr-shutstate	VLAN brief shutdown state **shutdown value: 1** VLAN shut state **noshutdown value: 2** VLAN no shut state
vlanshowplist-ifidx	Type: interface-mrange Port list ifindex
vlanshowinfo-mtu-hdr	Type: uinteger Vlan info mtu header
vlanshowinfo-vlanid	Type: uinteger Vlan info VLAN ID
vlanshowinfo-media-type	Select media type **enet value: 1** Vlan type Ethernet
vlanshowinfo-vlanmode	VLAN brief VLAN mode **ce-vlan value: 0** Classical Ethernet VLAN mode **fabricpath-vlan value: 1** Fabricpath VLAN mode
vlanshowrspan-hdr1	Type: uinteger RSPAN VLAN header for one VLAN
vlanshowrspan-hdr2	Type: uinteger RSPAN VLAN header for multiple VLANs
vlanshowrspan-vlantype	RSPAN VLAN one VLAN rspan or non-rspan **rspan value: 2** VLAN is RSPAN VLAN **notrspan value: 1** VLAN is not RSPAN VLAN
vlanshowrspan-vlanbitmap	Type: bitmap RSPAN VLAN multiple VLANs

show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker

Command Modes

- /exec

show vlan private-vlan

show vlan [**id** *vlan-id*] **private-vlan** [**__readonly__** *start primary secondary pvlan-type ports*]

Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
__readonly__	Read Only
start	Type: uinteger Start
primary	Type: uinteger Primary VLAN
secondary	Type: uinteger Secondary VLAN
pvlan-type	**isolated value: 1** Isolated PVLAN **community value: 2** Community PVLAN **primary value: 3** Primary PVLAN **non-operational value: 4** Non-operational PVLAN
ports	Type: uinteger Port list

Command Modes

- /exec

show vlan private-vlan interface host

show vlan private-vlan interface [*if*] **host** [**next** *data*] [**__readonly__** *start interface-id secondary-vlan*]

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
if	Type: interface-mrange Interface id
host	private-vlan host
next	next-entry
data	Type: uinteger ignore junk value
__readonly__	Read Only
start	Type: uinteger Start
interface-id	Type: interface Interface
secondary-vlan	Type: uinteger Secondary Vlan

Command Modes

- /exec

show vlan private-vlan interface mapping

show vlan private-vlan interface [*if*] **mapping** [**__readonly__** *start interface-id multi-primary secondary-vlan two-way*]

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
if	Type: interface-mrange Interface id
mapping	private-vlan mapping
__readonly__	Read Only
start	Type: uinteger Start
interface-id	Type: interface Interface
multi-primary	Type: bool multiple primay capable
secondary-vlan	Type: bitmap seconadry vlans bitmap
two-way	Type: bool multiple primay capable

Command Modes

- /exec

show vlan private-vlan interface mode

show vlan private-vlan interface [*if*] **mode** [**next** *data*] [**__readonly__** *start interface-id port-mode*]

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
if	Type: interface-mrange Interface id
mode	private-vlan port mode
next	next-entry
data	Type: uinteger ignore junk value
__readonly__	Read Only
start	Type: uinteger Start
interface-id	Type: interface Interface
port-mode	**not-private-vlan value: 1** **private-vlan-host value: 2** **private-vlan-promiscuous value: 3** **private-vlan-trunk value: 4**

Command Modes

- /exec

show vlan private-vlan interface trunk

show vlan private-vlan interface [*if*] **trunk** [**__readonly__** *start interface-id dynamic-state encap-type native-vlan secondary-vlans normal-vlans dynamic-status encap-oper-type*]

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
if	Type: interface-mrange Interface id
trunk	pvlan trunk
__readonly__	Read Only
start	Type: uinteger Start
interface-id	Type: interface Interface
dynamic-state	Type: uinteger dynamic state
encap-type	Type: uinteger encapsulation type
native-vlan	Type: uinteger native vlan
secondary-vlans	Type: bitmap secondary vlans
normal-vlans	Type: bitmap normal vlans
dynamic-status	Type: uinteger dynamic status

encap-oper-type	Type: uinteger encap oper type

Command Modes

- /exec

show vlan private-vlan mapping

show vlan [**id** *vlan-id*] **private-vlan mapping** [**next** *data*] [**__readonly__** *start vlan-id primary*]

Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
mapping	private-vlan mapping
next	next-entry
data	Type: uinteger ignore junk value
__readonly__	Read Only
start	Type: uinteger Start
vlan-id	Type: uinteger secondary
primary	Type: uinteger primary-vlan

Command Modes

- /exec

show vlan private-vlan type

show vlan [**id** *vlan-id*] **private-vlan type** [**__readonly__** *start vlan pvlan-type primary*]

Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
vlan-id	Type: vlan-mrange VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
type	Private VLAN type information
__readonly__	Read Only
start	Type: uinteger Start
vlan	Type: uinteger vlan
pvlan-type	**isolated value: 1** Isolated PVLAN **community value: 2** Community PVLAN **primary value: 3** Primary PVLAN **non-operational value: 4** Non-operational PVLAN **normal value: 5** normal
primary	Type: uinteger associated to primary

Command Modes

- /exec

show vlan reserved

show vlan reserved [**__readonly__ TABLE_reserved** *ivusage-vlanid ivusage-desc show-end* [*true-end*]]

Syntax Description

show	Show running system information
vlan	VLAN status
reserved	Internal reserved VLANs
__readonly__	Read Only
TABLE_reserved	Internal reserved VLAN table format
ivusage-vlanid	Type: uinteger internal vlan usage VLAN id

ivusage-desc	**Multicast VLAN start value: 1** Multicast VLAN start **Multicast VLAN end value: 2** Multicast VLAN end **Online diagnostics vlan1 value: 3** online diagnostics vlan1 **Online diagnostics vlan2 value: 4** online diagnostics vlan2 **Online diagnostics vlan3 value: 5** online diagnostics vlan3 **Online diagnostics vlan4 value: 6** online diagnostics vlan4 **Unused reserved VLAN lower start value: 7** Unused VLAN lower start **Unused reserved VLAN lower end value: 8** Unused VLAN lower end **Satellite VLAN value: 9** Satellite VLAN **Unused reserved VLAN upper start value: 10** Unused VLAN upper start **Unused reserved VLAN upper end value: 11** Unused VLAN upper end **Reserved value: 12** Reserved
show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker

Command Modes

- /exec

show vlan xbrief

show vlan xbrief [**__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
__readonly__	Read Only
TABLE_vlanbriefxbrief	VLAN brief table format
vlanshowbr-hdr	Type: uinteger VLAN brief header
vlanshowbr-vlanid	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanid-utf	Type: uinteger VLAN brief VLAN ID
vlanshowbr-vlanname	Type: string VLAN brief VLAN name
vlanshowbr-vlanstate	VLAN brief VLAN state **active value: 1** VLAN Active State **suspend value: 2** VLAN Suspended State
vlanshowbr-shutstate	VLAN brief shutdown state **shutdown value: 1** VLAN shut state **noshutdown value: 2** VLAN no shut state

vlanshowplist-ifidx	Type: interface-mrange Port list ifindex
show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker

Command Modes

- /exec

show vlan xsummary

show vlan xsummary [**__readonly__** *vlansum-vtp-vlan vlansum-ext-vlan vlansum-all-vlan vlansum-max-supported-vlan show-end* [*true-end*]]

Syntax Description

show	Show running system information
vlan	VLAN status
xsummary	VLAN summary information
__readonly__	Read Only
vlansum-vtp-vlan	Type: uinteger Show vlan summary Number of normal vlans
vlansum-ext-vlan	Type: uinteger Show vlan summary Number of extended vlans
vlansum-all-vlan	Type: uinteger Show vlan summary Total
vlansum-max-supported-vlan	Type: uinteger Show vlan summary Max supported vlans
show-end	Type: uinteger Show vlan end marker
true-end	Type: uinteger Show vlan end marker

Command Modes

- /exec

show vpc (mcecm)

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 vpc-thru-peerlink vpc-consistency* [*vpc-consistency-reason*] [*vpc-consistency-status*] *up-vlan-bitset es-attr*] *vpc-end*]

Syntax Description

show	Show running system information
vpc	Virtual Port Channel configuration
brief	Brief display of vPC status
vpc-number	Type: integer min: 1 max: 4096 Enter a Virtual Port Channel number
__readonly__	Read Only
vpc-hdr	Type: string Start of vPC table
vpc-is-es	Type: string Flag to indicate vPC+ complex
vpc-not-es	Type: string Flag to indicate vPC complex
TABLE_vpc	vPC table
vpc-id	Type: uinteger vPC id
vpc-ifindex	Type: string vPC ifindex
vpc-port-state	Type: integer vPC port state
vpc-thru-peerlink	Type: integer vPC Routing through peerlink

vpc-consistency	vPC global configuration consistency **consistent value: 1** vPC global configuration consistent **inconsistent value: 2** vPC global configuration inconsistent **not-applicable value: 3** vPC configuration not applicable
vpc-consistency-reason	Type: string vPC consistency reason

vpc-consistency-status

vPC consistency reason

SUCCESS value: 0x00000000

SUCCESS

INVALID value: 0x00000001

INVALID

SYSERR_MCECM_COMPAT_FAILED value: 0x41B7000F

SYSERR_MCECM_COMPAT_FAILED

SYSERR_MCECM_PEER_NOT_CFG value: 0x41B70025

SYSERR_MCECM_PEER_NOT_CFG

SYSERR_MCECM_MCT_DOWN value: 0x41B7002A

SYSERR_MCECM_MCT_DOWN

SYSERR_MCECM_MCT_NOT_UP value: 0x41B70035

SYSERR_MCECM_MCT_NOT_UP

SYSERR_MCECM_MCT_DOES_NOT_EXISTS value: 0x41B7003A

SYSERR_MCECM_MCT_DOES_NOT_EXISTS

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS value: 0x41B7003B

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS

SYSERR_MCECM_COMPAT_CHK_NOT_DONE value: 0x41B70042

SYSERR_MCECM_COMPAT_CHK_NOT_DONE

SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F

SYSERR_MCECM_DOMAIN_COMPAT_FAILED

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED value: 0x41B70044

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH value: 0x402B0027

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH

SYSERR_PCM_MCEC_LAG_ID_MISMATCH value: 0x402B0029

SYSERR_PCM_MCEC_LAG_ID_MISMATCH

SYSERR_PCM_INVALID value: 0x402B0004

SYSERR_PCM_INVALID

SYSERR_PCM_INTERNAL value: 0x402B0003

SYSERR_PCM_INTERNAL

SYSERR_STP_COMPAT_CHECK_FAILURE value: 0x40DD003A

SYSERR_STP_COMPAT_CHECK_FAILURE

SYSERR_SVI_COMPAT_CHECK_FAILURE value: 0x410C0021

	SYSERR_SVI_COMPAT_CHECK_FAILURE **SYSERR_MCECM_TYPE_CHECK_BYPASSED value: 0x41B70050** SYSERR_MCECM_TYPE_CHECK_BYPASSED **SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH value: 0x41B** SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH
up-vlan-bitset	Type: string vPC UP VLAN bitset
es-attr	Type: string vPC+ attributes
vpc-end	Type: string End of table

Command Modes

- /exec

show vpc (mcecm)

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-scale-high-status*] [*fp-enhanced-load-balancing*] [*vpc-per-vlan-peer-consistency*] *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 vpc-thru-peerlink vpc-consistency* [*vpc-consistency-reason*] [*vpc-consistency-status*] *up-vlan-bitset es-attr*] *vpc-end*]

Syntax Description

show	Show running system information
vpc	Virtual Port Channel configuration
brief	Brief display of vPC status
__readonly__	Read Only
TABLE_peerlink	vPC peerlink table
TABLE_vpc	vPC table
vpc-domain-id	Type: string vPC domain id
vpc-l2mp-switch-id	Type: uinteger vPC+ switch ID
vpc-peer-status	vPC peer status **peer-not-configured value: 1** vPC peer-link not configured **peer-not-found value: 2** vPC peer not found **peer-ok value: 3** vPC peer adjacency ok **peer-link-down value: 4** vPC peer link down

vpc-peer-status-reason	vPC peer status reason **SUCCESS value: 0x00000000** SUCCESS **SYSERR_MCECM_PEER_UNRCH value: 0x41B70034** SYSERR_MCECM_PEER_UNRCH **SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F** SYSERR_MCECM_DOMAIN_COMPAT_FAILED **SYSERR_MCECM_ELECTION_ERROR value: 0x41B70037** SYSERR_MCECM_ELECTION_ERROR **SYSERR_MCECM_OOB_NOT_OPERATIONAL value: 0x41B7004D** SYSERR_MCECM_OOB_NOT_OPERATIONAL
vpc-peer-keepalive-status	vpc peer keepalive status **disabled value: 1** vpc peer keepalive disabled **peer-alive value: 2** vpc peer keepalive received **peer-not-alive value: 3** vpc peer keepalive not received **peer-alive-domain-mismatch value: 4** vpc peer keepalive received,domainID mismatch **suspended value: 5** vpc peer keepalive suspended for ISSU **not-operational value: 6** vpc peer keepalive not operational **suspended-vrf value: 7** vpc peer keepalive suspended: invalid vrf **misconfigured value: 8** vpc peer keepalive misconfigured

vpc-peer-l2mp-status	vPC fabricpath status **unknown value: 0** vpc fabricpath peer is unknown **alive value: 1** vpc peer is reachable through fabricpath network **dead value: 2** vpc peer is unreachable through fabricpath network
vpc-role	vPC role **none-established value: 0** no role established **primary value: 2** vPC primary primary **primary-secondary value: 1** vPC primary secondary **secondary-primary value: 3** vPC secondary primary **secondary value: 4** vPC secondary secondary
peer-gateway	Type: integer Peer gateway status
peer-gateway-excluded-vlans	Type: string peer-gateway excluded VLANs
dual-active-excluded-vlans	Type: string dual-active excluded VLANs
fp-enhanced-load-balancing	Type: integer Fabricpath enhanced load balancing status
num-of-vpcs	Type: string Number of vPCs configured
track-obj	Type: string Track object for vPC

vpc-graceful-consistency-check-status	vPC graceful consistency check **enabled value: 1** vPC graceful consistency check enabled **disabled-user value: 2** vPC graceful check user disabled **disabled-peer value: 3** vPC graceful check peer disabled
vpc-consistency	vPC global configuration consistency **consistent value: 1** vPC global configuration consistent **inconsistent value: 2** vPC global configuration inconsistent **not-applicable value: 3** vPC configuration not applicable
vpc-consistency-reason	Type: string vPC consistency reason

vpc-consistency-status

vPC consistency reason

SUCCESS value: 0x00000000

SUCCESS

INVALID value: 0x00000001

INVALID

SYSERR_MCECM_COMPAT_FAILED value: 0x41B7000F

SYSERR_MCECM_COMPAT_FAILED

SYSERR_MCECM_PEER_NOT_CFG value: 0x41B70025

SYSERR_MCECM_PEER_NOT_CFG

SYSERR_MCECM_MCT_DOWN value: 0x41B7002A

SYSERR_MCECM_MCT_DOWN

SYSERR_MCECM_MCT_NOT_UP value: 0x41B70035

SYSERR_MCECM_MCT_NOT_UP

SYSERR_MCECM_MCT_DOES_NOT_EXISTS value: 0x41B7003A

SYSERR_MCECM_MCT_DOES_NOT_EXISTS

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS value: 0x41B7003B

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS

SYSERR_MCECM_COMPAT_CHK_NOT_DONE value: 0x41B70042

SYSERR_MCECM_COMPAT_CHK_NOT_DONE

SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F

SYSERR_MCECM_DOMAIN_COMPAT_FAILED

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED value: 0x41B

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH value: 0x40

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH

SYSERR_PCM_MCEC_LAG_ID_MISMATCH value: 0x402B0029

SYSERR_PCM_MCEC_LAG_ID_MISMATCH

SYSERR_PCM_INVALID value: 0x402B0004

SYSERR_PCM_INVALID

SYSERR_PCM_INTERNAL value: 0x402B0003

SYSERR_PCM_INTERNAL

SYSERR_STP_COMPAT_CHECK_FAILURE value: 0x40DD003A

SYSERR_STP_COMPAT_CHECK_FAILURE

SYSERR_SVI_COMPAT_CHECK_FAILURE value: 0x410C0021

	SYSERR_SVI_COMPAT_CHECK_FAILURE **SYSERR_MCECM_TYPE_CHECK_BYPASSED value: 0x41B70050** SYSERR_MCECM_TYPE_CHECK_BYPASSED **SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH va** SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH
vpc-peer-consistency	vPC global configuration consistency **consistent value: 1** vPC global configuration consistent **inconsistent value: 2** vPC global configuration inconsistent **not-applicable value: 3** vPC configuration not applicable
vpc-peer-consistency-reason	Type: string vPC consistency reason

vpc-peer-consistency-status

vPC consistency reason

SUCCESS value: 0x00000000

SUCCESS

INVALID value: 0x00000001

INVALID

SYSERR_MCECM_COMPAT_FAILED value: 0x41B7000F

SYSERR_MCECM_COMPAT_FAILED

SYSERR_MCECM_PEER_NOT_CFG value: 0x41B70025

SYSERR_MCECM_PEER_NOT_CFG

SYSERR_MCECM_MCT_DOWN value: 0x41B7002A

SYSERR_MCECM_MCT_DOWN

SYSERR_MCECM_MCT_NOT_UP value: 0x41B70035

SYSERR_MCECM_MCT_NOT_UP

SYSERR_MCECM_MCT_DOES_NOT_EXISTS value: 0x41B7003A

SYSERR_MCECM_MCT_DOES_NOT_EXISTS

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS value: 0x41B7003B

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS

SYSERR_MCECM_COMPAT_CHK_NOT_DONE value: 0x41B70042

SYSERR_MCECM_COMPAT_CHK_NOT_DONE

SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F

SYSERR_MCECM_DOMAIN_COMPAT_FAILED

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED value: 0x41B700

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH value: 0x402B0

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH

SYSERR_PCM_MCEC_LAG_ID_MISMATCH value: 0x402B0029

SYSERR_PCM_MCEC_LAG_ID_MISMATCH

SYSERR_PCM_INVALID value: 0x402B0004

SYSERR_PCM_INVALID

SYSERR_PCM_INTERNAL value: 0x402B0003

SYSERR_PCM_INTERNAL

SYSERR_STP_COMPAT_CHECK_FAILURE value: 0x40DD003A

SYSERR_STP_COMPAT_CHECK_FAILURE

SYSERR_SVI_COMPAT_CHECK_FAILURE value: 0x410C0021

	SYSERR_SVI_COMPAT_CHECK_FAILURE **SYSERR_MCECM_TYPE_CHECK_BYPASSED value: 0x41B70050** SYSERR_MCECM_TYPE_CHECK_BYPASSED **SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH** SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATC
vpc-per-vlan-peer-consistency	vPC per-vlan global configuration consistency **consistent value: 1** vPC per-vlan global configuration consistent **inconsistent value: 2** vPC per-vlan global configuration inconsistent
vpc-type-2-consistency	vPC type-2 configuration consistency status **consistent value: 1** vPC type-2 compat check succeeded **inconsistent value: 2** vPC type-2 compat check failed
vpc-type-2-consistency-reason	Type: string vPC type-2 configuration consistency reason

vpc-type-2-consistency-status

vPC type-2 configuration consistency status

SUCCESS value: 0x00000000

SUCCESS

INVALID value: 0x00000001

INVALID

SYSERR_MCECM_COMPAT_FAILED value: 0x41B7000F

SYSERR_MCECM_COMPAT_FAILED

SYSERR_MCECM_PEER_NOT_CFG value: 0x41B70025

SYSERR_MCECM_PEER_NOT_CFG

SYSERR_MCECM_MCT_DOWN value: 0x41B7002A

SYSERR_MCECM_MCT_DOWN

SYSERR_MCECM_MCT_NOT_UP value: 0x41B70035

SYSERR_MCECM_MCT_NOT_UP

SYSERR_MCECM_MCT_DOES_NOT_EXISTS value: 0x41B7003A

SYSERR_MCECM_MCT_DOES_NOT_EXISTS

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS value: 0x41B7003B

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS

SYSERR_MCECM_COMPAT_CHK_NOT_DONE value: 0x41B70042

SYSERR_MCECM_COMPAT_CHK_NOT_DONE

SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F

SYSERR_MCECM_DOMAIN_COMPAT_FAILED

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED value: 0x41B

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH value: 0x40

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH

SYSERR_PCM_MCEC_LAG_ID_MISMATCH value: 0x402B0029

SYSERR_PCM_MCEC_LAG_ID_MISMATCH

SYSERR_PCM_INVALID value: 0x402B0004

SYSERR_PCM_INVALID

SYSERR_PCM_INTERNAL value: 0x402B0003

SYSERR_PCM_INTERNAL

SYSERR_STP_COMPAT_CHECK_FAILURE value: 0x40DD003A

SYSERR_STP_COMPAT_CHECK_FAILURE

SYSERR_SVI_COMPAT_CHECK_FAILURE value: 0x410C0021

	SYSERR_SVI_COMPAT_CHECK_FAILURE **SYSERR_MCECM_TYPE_CHECK_BYPASSED value: 0x41B70050** SYSERR_MCECM_TYPE_CHECK_BYPASSED **SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH va** SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH
vpc-scale-high-status	vPC scale high status **enabled value: 1** vPC scale high status enabled **disabled-user value: 2** vPC scale high status user disabled **disabled-peer value: 3** vPC scale high status peer disabled
vpc-hdr	Type: string Start of vPC table
vpc-is-es	Type: string Flag to indicate vPC+ complex
vpc-not-es	Type: string Flag to indicate vPC complex
vpc-peer-link-hdr	Type: string Start of vPC peer-link table
vpc-thru-peerlink	Type: integer vPC Routing through peerlink
vpc-port-state	Type: integer vPC port state
vpc-end	Type: string End of table
vpc-id	Type: uinteger vPC id
vpc-ifindex	Type: string vPC ifindex

peer-link-id	Type: uinteger peer link id
peerlink-ifindex	Type: string peer link ifindex
peer-link-port-state	Type: integer peer-link port state
peer-up-vlan-bitset	Type: string peer link UP VLAN bitset
up-vlan-bitset	Type: string vPC UP VLAN bitset
es-attr	Type: string vPC+ attributes
vpc-auto-recovery-status	Type: string Auto-recovery status

Command Modes

- /exec

show vpc consistency-parameters

show vpc consistency-parameters {**global**| **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

show	Show running system information
vpc	Virtual Port Channel configuration
consistency-parameters	Show vPC Consistency Parameters
global	Global Parameters
interface	Specify interface
vpc-num	Type: integer min: 1 max: 4096 Enter a Virtual Port Channel number
__readonly__	Read Only
TABLE_vpc_consistency	vPC table
vpc-param-name	Type: string
vpc-param-type	Type: string
vpc-param-local-val	Type: string
vpc-param-peer-val	Type: string

Command Modes

- /exec

show vpc consistency-parameters vlans

show vpc consistency-parameters vlans [**__readonly__ TABLE_vpc_consistency** *vpc-param-name vpc-param-type* [*reason_code*] [*syserr*] *vpc-pass-vlans* [*reason_code*]]

Syntax Description

show	Show running system information
vpc	Virtual Port Channel configuration
consistency-parameters	Show vPC Consistency Parameters
vlans	vlans
__readonly__	Read Only
TABLE_vpc_consistency	vPC table
vpc-param-name	Type: string
vpc-param-type	Type: string
vpc-pass-vlans	Type: string
syserr	Type: string vPC consistency reason

reason_code

vPC consistency reason

SUCCESS value: 0x00000000

SUCCESS

INVALID value: 0x00000001

INVALID

SYSERR_MCECM_COMPAT_FAILED value: 0x41B7000F

SYSERR_MCECM_COMPAT_FAILED

SYSERR_MCECM_PEER_NOT_CFG value: 0x41B70025

SYSERR_MCECM_PEER_NOT_CFG

SYSERR_MCECM_MCT_DOWN value: 0x41B7002A

SYSERR_MCECM_MCT_DOWN

SYSERR_MCECM_MCT_NOT_UP value: 0x41B70035

SYSERR_MCECM_MCT_NOT_UP

SYSERR_MCECM_MCT_DOES_NOT_EXISTS value: 0x41B7003A

SYSERR_MCECM_MCT_DOES_NOT_EXISTS

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS value: 0x41B7003B

SYSERR_MCECM_MCEC_DOES_NOT_EXISTS

SYSERR_MCECM_COMPAT_CHK_NOT_DONE value: 0x41B70042

SYSERR_MCECM_COMPAT_CHK_NOT_DONE

SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F

SYSERR_MCECM_DOMAIN_COMPAT_FAILED

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED value: 0x41B70044

SYSERR_MCECM_GLOBAL_COMPAT_CHK_FAILED

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH value: 0x402B0027

SYSERR_PCM_MCEC_CHANNEL_MODE_MISMATCH

SYSERR_PCM_MCEC_LAG_ID_MISMATCH value: 0x402B0029

SYSERR_PCM_MCEC_LAG_ID_MISMATCH

SYSERR_PCM_INVALID value: 0x402B0004

SYSERR_PCM_INVALID

SYSERR_PCM_INTERNAL value: 0x402B0003

SYSERR_PCM_INTERNAL

SYSERR_STP_COMPAT_CHECK_FAILURE value: 0x40DD003A

SYSERR_STP_COMPAT_CHECK_FAILURE

SYSERR_SVI_COMPAT_CHECK_FAILURE value: 0x410C0021

SYSERR_SVI_COMPAT_CHECK_FAILURE

SYSERR_MCECM_TYPE_CHECK_BYPASSED value: 0x41B70050

SYSERR_MCECM_TYPE_CHECK_BYPASSED

SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH value: 0x41B

SYSERR_MCECM_LOCAL_PEER_SWITCHID_DOES_NOT_MATCH

Command Modes

- /exec

show vpc orphan-ports

show vpc orphan-ports [**__readonly__ TABLE_orphan_ports** *vpc-vlan vpc-orphan-ports*]

Syntax Description

show	Show running system information
vpc	Virtual Port Channel configuration
orphan-ports	Show ports that are not part of vPC but have common VLANs
__readonly__	Read Only
TABLE_orphan_ports	vPC orphan ports table
vpc-vlan	Type: string
vpc-orphan-ports	Type: string

Command Modes

- /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

show	Show running system information
vpc	Virtual Port Channel configuration
peer-keepalive	vPC keepalive status
__readonly__	Read Only
vpc-peer-keepalive-status	vpc peer keepalive status **disabled value: 1** vpc peer keepalive disabled **peer-alive value: 2** vpc peer keepalive received **peer-not-alive value: 3** vpc peer keepalive not received **peer-alive-domain-mismatch value: 4** vpc peer keepalive received,domainID mismatch **suspended value: 5** vpc peer keepalive suspended for ISSU **not-operational value: 6** vpc peer keepalive not operational **suspended-vrf value: 7** vpc peer keepalive suspended: invalid vrf **misconfigured value: 8** vpc peer keepalive misconfigured
vpc-keepalive-dest	Type: string vPC keepalive destination ip address

vpc-keepalive-send-status	vPC keepalive send status **Success value: 1** vPC keepalive send succeeded **Failed value: 2** vPC keepalive send failed
vpc-keepalive-receive-status	vPC keepalive receive status **Success value: 1** vPC keepalive receive succeeded **Failed value: 2** vPC keepalive receive failed
vpc-peer-keepalive-up-time	Type: string keepalive- alive time
vpc-keepalive-send-tstamp	Type: string vPC keepalive last send timestamp
vpc-keepalive-send-interface	Type: string vPC keepalive send interface
vpc-keepalive-receive-tstamp	Type: string vPC keepalive last receive timestamp
vpc-keepalive-receive-interface	Type: string vPC keepalive receive interface
vpc-keepalive-lastupdate	Type: string vPC keepalive last update from peer
vpc-keepalive-interval	Type: integer vPC keepalive timeout
vpc-keepalive-timeout	Type: integer vPC keepalive interval
vpc-keepalive-hold-timeout	Type: integer hold timeout
vpc-keepalive-vrf	Type: string vrf name

vpc-keepalive-udp-port	Type: integer udp port
vpc-keepalive-tos	Type: integer tos value

Command Modes

- /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*]

Syntax Description

show	Show running system information
vpc	Virtual Port Channel configuration
role	vPC role status
__readonly__	Read Only
vpc-peer-status	vPC peer status **peer-not-configured value: 1** vPC peer-link not configured **peer-not-found value: 2** vPC peer not found **peer-ok value: 3** vPC peer adjacency ok **peer-link-down value: 4** vPC peer link down
vpc-peer-status-reason	vPC peer status reason **SUCCESS value: 0x00000000** SUCCESS **SYSERR_MCECM_PEER_UNRCH value: 0x41B70034** SYSERR_MCECM_PEER_UNRCH **SYSERR_MCECM_DOMAIN_COMPAT_FAILED value: 0x41B7003F** SYSERR_MCECM_DOMAIN_COMPAT_FAILED **SYSERR_MCECM_ELECTION_ERROR value: 0x41B70037** SYSERR_MCECM_ELECTION_ERROR **SYSERR_MCECM_OOB_NOT_OPERATIONAL value: 0x41B7004D** SYSERR_MCECM_OOB_NOT_OPERATIONAL

vpc-current-role	vPC role **none-established value: 0** no role established **primary value: 2** vPC primary primary **primary-secondary value: 1** vPC primary secondary **secondary-primary value: 3** vPC secondary primary **secondary value: 4** vPC secondary secondary
vpc-es-current-role	vPC role **none-established value: 0** no role established **primary value: 2** vPC primary primary **primary-secondary value: 1** vPC primary secondary **secondary-primary value: 3** vPC secondary primary **secondary value: 4** vPC secondary secondary
dual-active-detected	Type: integer Dual active detection status
vpc-system-mac	Type: string vPC system mac
vpc-local-system-mac	Type: string vPC local system mac
vpc-system-prio	Type: uinteger vPC system priority
vpc-local-system-prio	Type: uinteger vPC local system priority

Command Modes

- /exec

show vpc statistics

show vpc statistics {**vpc** *vpc_num*| **peer-link**}

Syntax Description

show	Show running system information
vpc	Virtual Port Channel configuration
statistics	Statistics
vpc_num	Type: integer min: 1 max: 4096 Virtual Port Channel number
peer-link	stats for peer-link

Command Modes

- /exec

show vpc statistics peer-keepalive

show vpc statistics peer-keepalive [**__readonly__** *vpc-keepalive-counters-tx vpc-keepalive-counters-rx vpc-keepalive-avg-rx-interval vpc-keepalive-peer-state-changes*]

Syntax Description

show	Show running system information
vpc	Virtual Port Channel configuration
statistics	Statistics
peer-keepalive	peer keepalive module related statistics
__readonly__	Read Only
vpc-keepalive-counters-tx	Type: uinteger tx counters
vpc-keepalive-counters-rx	Type: uinteger rx counters
vpc-keepalive-avg-rx-interval	Type: uinteger avg rx interval in ms
vpc-keepalive-peer-state-changes	Type: uinteger peer state changes

Command Modes

- /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 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
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display VRF information for all VRFs
order	Specify ordering
id	Order by ID
detail	Display VRF detail information
passive	Display passive VRF information
__readonly__	
TABLE_vrf	
TABLE_tib	
vrf_name	Type: string
vrf_id	Type: uinteger
vrf_state	Type: string
vrf_reason	Type: string
vrf_pend	Type: bool
vpnid	Type: string

rd	Type: string
max_routes	Type: uinteger
mid_threshold	Type: uinteger
tib_id	Type: uinteger
tib_af	Type: string
tib_nonce	Type: uinteger
tib_state	Type: string
tib_reason	Type: string
tib_pend	Type: bool

Command Modes

- /exec

show vrf interface

show vrf [*vrf-name*| *vrf-known-name*| **all**] **interface** [*interface*] [**__readonly__ TABLE_if** *if_name vrf_name* {*vrf_id*|*fwd_ref*} *soo*]

Syntax Description

show	Show running system information
vrf	Display VRF information
vrf-name	Type: vrf pattern: [-a-zA-Z0-9_:;$#@]* antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive length: 32 VRF name
vrf-known-name	Type: vrf Known VRF name
all	Display VRF information for all VRFs
interface	Display interface VRF information
interface	Type: interface Display interface VRF information
__readonly__	
TABLE_if	
if_name	Type: string
vrf_name	Type: string
vrf_id	Type: uinteger
fwd_ref	Type: string
soo	Type: string

Command Modes

- /exec

show vrf topology

show vrf topology [**order id**] **[detail]** [**__readonly__ TABLE_tib** *vrf_name tib_af tib_name tib_id tib_state* [*tib_reason tib_pend*]]

Syntax Description

show	Show running system information
vrf	Configure VRF parameters
topology	Display topology information
order	Specify ordering
id	Order by ID
detail	Display topology detail information
__readonly__	
TABLE_tib	
vrf_name	Type: string
tib_af	Type: string
tib_name	Type: string
tib_id	Type: uinteger
tib_state	Type: string
tib_reason	Type: string
tib_pend	Type: bool

Command Modes

- /exec

show vrrp

show vrrp [[**summary**]| [**statistics**| **detail**] [**interface** *interface_id*] [**vr** *vr_id*] [**master**| **backup**| **init**]+] [**__readonly__** *show_vrrp_start* **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*] *sh_vrrp_end*]

Syntax Description

show	Show running system information
vrrp	Show vrrp information
summary	Show vrrp summary
statistics	Show vrrp statistics
detail	Show detailed information
interface	Show vrrp info for the interface
interface_id	Type: interface
vr	Show vrrp info for the group
vr_id	Type: integer min: 1 max: 255 [1-255] enter IPv4 vr group
master	Groups in Master state
backup	Groups in Backup state
init	Groups in Init state
__readonly__	Read only
show_vrrp_start	Type: uinteger Show vrrp start
TABLE_vrrp_group	Group detail table
sh_if_index	Type: interface Interface type and number

sh_group_id	Type: uinteger Group number
sh_group_type	Group type **Unknown value: 0** **IPV4 value: 1** **IPV6 value: 2**
sh_group_state	VRRP group state **Init value: 1** **Backup value: 2** **Master value: 3**
sh_group_preempt	Group preemption statue **Disable value: 0** **Enable value: 1**
sh_vip_addr	Type: ipaddr Virtual IP Address
TABLE_sec_vip_addr	Secondary virtual ip address table
sh_sec_vip_addr	Type: ipaddr Secondary virtual ip address
sh_priority	Type: uinteger Priority of VRRP group
sh_auth_text	Type: string Authentication text
sh_cfg_priority	Type: uinteger Configured priority of VRRP group
sh_fwd_thr_lower	Type: uinteger Lower forwarding threshold
sh_fwd_thr_upper	Type: uinteger Upper forwarding threshold

sh_adv_interval	Type: uinteger Advertisement interval
sh_vmac	Type: string Virtual MAC
sh_master_router	Type: string Master router
sh_native_track_intf	Type: interface Native tracked interface
sh_native_track_priotiry	Type: uinteger Decrement priority for Native tracking
TABLE_vrrp_track	VRRP tracking table
sh_track_object_id	Type: uinteger Object id of tracking object
sh_decrement_priority	Type: uinteger Decrement priority
sh_track_object_state	Tracking object state **DOWN value: 0** **UP value: 1**
sh_bfd_status	BFD status **Disable value: 0** **Enable value: 1**
sh_bfd_session	BFD session status **Active value: 0** **Inactive value: 1** **Deleted value: 2** **State_Unknown value: 3**
sh_vrrp_end	Type: uinteger Show vrrp end

Command Modes

- /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	Groups on this interface
interface-id	Type: interface Interface
to	To IP address
ipaddress	Type: ipaddr Sessions to IP address
__readonly__	
TABLE_bfd_sess	
interface	Type: interface Interface
src_addr	Type: ipaddr IPv4 Source address
dst_addr	Type: ipaddr IPv4 Destination address
src_addr_v6	Type: ipv6addr IPv6 Source address
dst_addr_v6	Type: ipv6addr IPv6 Destination address
session_state	Type: string Session state

ref_count	Type: uinteger Ref count
displayed_interface	Type: interface Displayed interface
TABLE_groups	
group_id	Type: uinteger Group id
vrrp_state	Type: string VRRP STATE
bfd_status	Type: string BFD STATE
operation	Type: string Operation
time	Type: string Time

Command Modes

- /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
__readonly__	Read Only
start	Type: uinteger Start
summary_rx	Type: uinteger Summary advertisements received
subset_rx	Type: uinteger Subset advertisements received
request_rx	Type: uinteger Request advertisements received
summary_tx	Type: uinteger Summary advertisements transmitted
subset_tx	Type: uinteger Subset advertisements transmitted
request_tx	Type: uinteger Request advertisements transmitted
num_config_rev_error	Type: uinteger Number of config revision errors
num_config_digest_error	Type: uinteger Number of config digest errors
num_v1_summary_error	Type: uinteger Number of V1 summary errors

TABLE_pruning_counters	Pruning counters in table format
if_index	Type: interface Trunk
join_tx	Type: uinteger Join Transmitted
join_rx	Type: uinteger Join Received
summary_adv_v1_rx	Type: uinteger Summary advts received from non-pruning-capable device

Command Modes

- /exec

show vtp datafile

show vtp datafile

Syntax Description

show	Show running system information
vtp	VTP information
datafile	vlan.dat

Command Modes

- /exec

show vtp domain id

show vtp domain id *domain-id* [**__readonly__** *start domain_name oper-mode config_rev last_modified_ip last_modified_time tftp_server tftp_file_path pruning_mode version_in_use oper_pruning_mode*]

Syntax Description

show	Show running system information
vtp	VTP information
domain	VTP administrative domain
id	VTP administrative domain ID
domain-id	Type: uinteger Domian index(Domain-id)
__readonly__	Read Only
start	Type: uinteger Start
domain_name	Type: string VTP Domain Name
oper-mode	VTP Mode **Client value: 1** VTP Mode Client **Server value: 2** VTP Mode Server **Transparent value: 3** VTP Mode Transparent **Off value: 4** VTP Mode Off
config_rev	Type: uinteger Configuration Revision
last_modified_ip	Type: string Configuration last modified by

last_modified_time	Type: string Configuration last modified at
tftp_server	Type: string TFTP Server IP Address
tftp_file_path	Type: string TFTP complete path of the file
pruning_mode	Pruning mode Enabled/Disabled **Enabled value: 1** Pruning Enabled **Disabled value: 2** Pruning Disabled
version_in_use	VTP Version in use **V1 value: 1** Version 1 **V2 value: 2** Version 2 **None value: 3** No Version **V3 value: 4** Version 4
oper_pruning_mode	Operational Pruning Mode **Enabled value: 1** Pruning Enabled **Disabled value: 2** Pruning Disabled

Command Modes

- /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
interface_range	Type: interface-mrange Enter interfaces
__readonly__	Read Only
start	Type: uinteger Start
TABLE_vtp_interface	VTP interface configuration in table format
if_index	Type: interface Trunk
status	VTP interface status **Enabled value: 1** VTP Enabled **Disabled value: 2** VTP Disabled

Command Modes

- /exec

show vtp mibstats

show vtp mibstats [**__readonly__** *start summary_rx subset_rx request_rx summary_tx subset_tx request_tx num_config_rev_error num_config_digest_error*]

Syntax Description

show	Show running system information
vtp	VTP information
mibstats	VTP Statistics for MIB
__readonly__	Read Only
start	Type: uinteger Start
summary_rx	Type: uinteger Summary advertisements received
subset_rx	Type: uinteger Subset advertisements received
request_rx	Type: uinteger Request advertisements received
summary_tx	Type: uinteger Summary advertisements transmitted
subset_tx	Type: uinteger Subset advertisements transmitted
request_tx	Type: uinteger Request advertisements transmitted
num_config_rev_error	Type: uinteger Number of config revision errors
num_config_digest_error	Type: uinteger Number of config digest errors

Command Modes

- /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	VTP administrative domain
domain-id	Type: uinteger Domian index(Domain-id)
__readonly__	Read Only
start	Type: uinteger Start
passwd	Type: string length: 64 VTP Domain Password
password-type	Type: uinteger Password Type (1=plaintxt, 2=hidden)
secret-key	Type: uinteger Secret Key for the password

Command Modes

- /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
__readonly__	Read Only
start	Type: uinteger Start
version	Type: uinteger VTP version
config_rev	Type: uinteger Configuration Revision
max_vlan_supported_local	Type: uinteger Maximum VLANs supported locally
num_current_vlans	Type: uinteger Number of existing VLANs
oper_mode	VTP Mode **client value: 1** VTP Mode Client **server value: 2** VTP Mode Server **transparent value: 3** VTP Mode Transparent **off value: 4** VTP Mode Off
domain_name	Type: string VTP Domain Name

pruning_mode	Pruning Mode **enabled value: 1** Pruning Enabled **disabled value: 2** Pruning Disabled
oper_pruning_mode	Operational Pruning Mode **enabled value: 1** Operational Pruning Enabled **disabled value: 2** Operational Pruning Disabled
v2_mode	VTP v2 Mode **enabled value: 1** V2 Mode Enabled **disabled value: 2** V2 Mode Disabled
trap_enabled	trap enabled **enabled value: 1** Trap Enabled **disabled value: 2** Trap Disabled
md5_digest	Type: string MD5 Digest
last_modified_ip	Type: string Configuration last modified by
last_modified_time	Type: string Configuration last modified at
running-version	Type: uinteger VTP Version Running
updater_id	Type: string Local Updater id

updater_reason	Local Updater id reason **no valid interface found value: 1** No valid interface found **first layer3 interface found value: 2** first layer3 interface found

Command Modes

- /exec

show vtp trunk interface

show vtp trunk interface *if_index* [**__readonly__** *start out_if_index join_rx join_tx summary_adv_v1_rx pruning_eligible vlan_joined_tx vlan_joined_rx vtp_enabled*]

Syntax Description

show	Show running system information
vtp	VTP information
trunk	VTP Trunk VLAN
interface	Specify an VTP Trunk interface
if_index	Type: interface VTP Trunk Port Interface Index
__readonly__	Read Only
start	Type: uinteger Start
out_if_index	Type: interface Returned VTP Trunk Port Interface Index
join_rx	Type: uinteger Join(s) Received
join_tx	Type: uinteger Join(s) Transmitted
summary_adv_v1_rx	Type: uinteger Summary advts received from non-pruning-capable device
pruning_eligible	Type: bitmap Pruning Eligible
vlan_joined_tx	Type: bitmap Trunk Port TX Vlans Joined
vlan_joined_rx	Type: bitmap Trunk Port RX Vlans Joined
vtp_enabled	Type: uinteger VTP Enabled (Yes(1)/No(0))

Command Modes

- /exec

show vtp vlan

show vtp vlan *vlan-id* [**domain** *domain-id*] [**__readonly__** *start status type vlan_name mtu said ring_number bridge_number stp_type parent_vlan trans_vlan1 trans_vlan2 bridge_type max_are_hop max_ste_hop crf_backup vlan_type_ext ifindex*]

Syntax Description

show	Show running system information
vtp	VTP information
vlan	VTP Domain VLANs
vlan-id	Type: uinteger VTP VLAN index(VLAN-id)
domain	VTP administrative domain
domain-id	Type: uinteger Domian index(Domain-id)
__readonly__	Read Only
start	Type: uinteger Start
status	Type: uinteger VTP VLAN Status - Operational=0,Suspended=1
type	VTP VLAN Type **Ether value: 1** VTP VLAN Type - Ethernet **FDDI value: 2** VTP VLAN Type - FDDI **TR value: 3** VTP VLAN Type - Token Ring **FDDINET value: 4** VTP VLAN Type - FDDI NET **TRNET value: 5** VTP VLAN Type - Token Ring NET

vlan_name	Type: string VTP VLAN Name
mtu	Type: uinteger VTP VLAN MTU
said	Type: uinteger VTP VLAN ID
ring_number	Type: uinteger VTP VLAN Ring Numeber for FDDI/TR
bridge_number	Type: uinteger VTP VLAN Bridge Number for FDDI-NET/TR-NET
stp_type	Type: uinteger VTP VLAN STP Type for FDDI-NET/TR-NET
parent_vlan	Type: uinteger VTP VLAN Parent VLAN for FDDI/TR
trans_vlan1	Type: uinteger VTP VLAN Translational VLAN 1
trans_vlan2	Type: uinteger VTP VLAN Translational VLAN 2
bridge_type	Type: uinteger VTP VLAN Brdige Type
max_are_hop	Type: uinteger VTP VLAN Max are-hop count
max_ste_hop	Type: uinteger VTP VLAN Max ste_hop count
crf_backup	Type: uinteger VTP VLAN Backup CRF Mode
vlan_type_ext	Type: uinteger VTP VLAN Type - VTP Managable, Internal, RSPAN, Dynamic GVRP
ifindex	Type: uinteger VTP VLAN Interface Index

Command Modes

- /exec

X Show Commands

- show xml server logging configuration, page 3202
- show xml server status, page 3203

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 Modes

- /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
__readonly__	
operational_status	run-time info about xml
o_status	operational status of the xml **disabled value: 0** **enabled value: 1**
maximum_sessions_configured	the max session configured
max_session	Type: integer min: 1 max: 8 max sessions number
TABLE_sessions	all xml sessions
session_id	Type: integer one xml session id
user_name	Type: string the xml session user name
start_time	Type: string the xml session start time
sap_id	Type: integer the mts sap id

timeout	Type: string inactivity timeout value
time_remaining_to_timeout	Type: string time remaining to timeout
ip_addr	Type: string ip address of the session

Command Modes

- /exec