



I Commands

- [show ieth-header-decode](#), on page 13
- [show imp client](#), on page 14
- [show imp client sa](#), on page 15
- [show in-order-guarantee](#), on page 16
- [show incompatibility-all system](#), on page 17
- [show incompatibility system](#), on page 18
- [show install](#), on page 19
- [show install all failed-standby](#), on page 20
- [show install all failure-reason](#), on page 21
- [show install all impact](#), on page 22
- [show install all impact epld](#), on page 23
- [show install all status](#), on page 24
- [show install epld status](#), on page 25
- [show install impact](#), on page 26
- [show install impact](#), on page 27
- [show install impact detail](#), on page 28
- [show install log](#), on page 29
- [show install packages](#), on page 30
- [show install patches](#), on page 31
- [show_interface](#), on page 32
- [show interface](#), on page 33
- [show interface](#), on page 41
- [show interface](#), on page 45
- [show interface](#), on page 57
- [show interface](#), on page 61
- [show interface](#), on page 63
- [show interface](#), on page 69
- [show interface](#), on page 71
- [show interface](#), on page 75
- [show interface](#), on page 79
- [show interface aggregate-counters](#), on page 80
- [show interface aggregate-counters](#), on page 81
- [show interface aggregate-counters](#), on page 82

- [show interface bbcredit](#), on page 83
- [show interface brief](#), on page 84
- [show interface brief](#), on page 85
- [show interface brief](#), on page 87
- [show interface brief](#), on page 88
- [show interface brief](#), on page 90
- [show interface brief](#), on page 91
- [show interface brief](#), on page 92
- [show interface brief](#), on page 93
- [show interface cable-diagnostics-tdr](#), on page 94
- [show interface capabilities](#), on page 95
- [show interface capabilities](#), on page 97
- [show interface capabilities](#), on page 99
- [show interface counters](#), on page 100
- [show interface counters](#), on page 101
- [show interface counters](#), on page 103
- [show interface counters](#), on page 105
- [show interface counters](#), on page 107
- [show interface counters](#), on page 109
- [show interface counters](#), on page 110
- [show interface counters brief](#), on page 111
- [show interface counters brief](#), on page 113
- [show interface counters detailed](#), on page 115
- [show interface counters detailed](#), on page 124
- [show interface counters detailed](#), on page 127
- [show interface counters detailed](#), on page 129
- [show interface counters detailed all](#), on page 135
- [show interface counters detailed all](#), on page 136
- [show interface counters detailed all](#), on page 139
- [show interface counters detailed all](#), on page 141
- [show interface counters detailed all](#), on page 142
- [show interface counters details](#), on page 150
- [show interface counters details](#), on page 151
- [show interface counters errors](#), on page 152
- [show interface counters errors](#), on page 154
- [show interface counters errors](#), on page 156
- [show interface counters errors fex](#), on page 157
- [show interface counters fex](#), on page 159
- [show interface counters snmp](#), on page 160
- [show interface counters snmp fex](#), on page 162
- [show interface counters storm-control](#), on page 163
- [show interface counters storm-control](#), on page 164
- [show interface counters table](#), on page 165
- [show interface counters trunk](#), on page 166
- [show interface debounce](#), on page 167
- [show interface debounce](#), on page 168

- [show interface description, on page 169](#)
- [show interface description, on page 170](#)
- [show interface description, on page 171](#)
- [show interface description, on page 172](#)
- [show interface description, on page 173](#)
- [show interface description, on page 174](#)
- [show interface description, on page 175](#)
- [show interface description, on page 176](#)
- [show interface detail-counters, on page 177](#)
- [show interface fcoe, on page 178](#)
- [show interface fex-conf, on page 179](#)
- [show interface fex-fabric, on page 180](#)
- [show interface fex-intf, on page 181](#)
- [show interface flowcontrol, on page 182](#)
- [show interface flowcontrol, on page 183](#)
- [show interface flowcontrol fex, on page 184](#)
- [show interface hardware-mappings, on page 185](#)
- [show interface mac-address, on page 186](#)
- [show interface mac-address, on page 187](#)
- [show interface priority-flow-control, on page 188](#)
- [show interface private-vlan mapping, on page 189](#)
- [show interface pruning, on page 190](#)
- [show interface snmp-ifindex, on page 191](#)
- [show interface status, on page 192](#)
- [show interface status, on page 193](#)
- [show interface status, on page 194](#)
- [show interface status, on page 195](#)
- [show interface status, on page 196](#)
- [show interface status, on page 197](#)
- [show interface status, on page 198](#)
- [show interface status err-disabled, on page 199](#)
- [show interface status err-disabled, on page 200](#)
- [show interface status err-vlans, on page 201](#)
- [show interface status err-vlans, on page 202](#)
- [show interface status fex, on page 203](#)
- [show interface switchport, on page 204](#)
- [show interface switchport, on page 206](#)
- [show interface transceiver, on page 208](#)
- [show interface transceiver, on page 215](#)
- [show interface transceiver, on page 223](#)
- [show interface transceiver fex-fabric, on page 224](#)
- [show interface transceiver fex-fabric, on page 231](#)
- [show interface trunk, on page 233](#)
- [show interface trunk, on page 235](#)
- [show interface trunk vsan, on page 236](#)
- [show interface trunk vsan, on page 237](#)

- [show interface trunk vsan](#), on page 238
- [show interface untagged-cos](#), on page 239
- [show interface vlan mapping](#), on page 240
- [show inventory](#), on page 241
- [show inventory fex](#), on page 242
- [show ip adjacency](#), on page 243
- [show ip amt relay](#), on page 246
- [show ip amt route](#), on page 247
- [show ip amt tunnel](#), on page 248
- [show ip arp](#), on page 250
- [show ip arp anycast topo-info](#), on page 252
- [show ip arp cache](#), on page 253
- [show ip arp client](#), on page 254
- [show ip arp inspection](#), on page 255
- [show ip arp inspection interfaces](#), on page 256
- [show ip arp inspection log](#), on page 257
- [show ip arp inspection statistics](#), on page 258
- [show ip arp inspection vlan](#), on page 259
- [show ip arp off-list](#), on page 260
- [show ip arp open-flow error-statistics](#), on page 261
- [show ip arp snmp ptree](#), on page 262
- [show ip arp statistics](#), on page 263
- [show ip arp suppression-cache](#), on page 267
- [show ip arp suppression topo-info](#), on page 270
- [show ip arp tunnel-statistics](#), on page 271
- [show ip arp vaddr](#), on page 273
- [show ip arp vpc-statistics](#), on page 274
- [show ip as-path-access-list](#), on page 277
- [show ip bgp](#), on page 278
- [show ip cache](#), on page 279
- [show ip client](#), on page 280
- [show ip community-list](#), on page 281
- [show ip debug](#), on page 282
- [show ip dhcp global statistics](#), on page 283
- [show ip dhcp relay](#), on page 285
- [show ip dhcp relay address](#), on page 287
- [show ip dhcp relay information trusted-sources](#), on page 288
- [show ip dhcp relay statistics](#), on page 289
- [show ip dhcp snooping](#), on page 292
- [show ip dhcp snooping binding](#), on page 293
- [show ip dhcp snooping statistics](#), on page 294
- [show ip dhcp status](#), on page 295
- [show ip dns source-interface](#), on page 296
- [show ip dns source-interface vrf all](#), on page 297
- [show ip eigrp](#), on page 298
- [show ip eigrp](#), on page 302

- [show ip eigrp accounting](#), on page 304
- [show ip eigrp event-history](#), on page 306
- [show ip eigrp event-history bfd](#), on page 307
- [show ip eigrp event](#), on page 308
- [show ip eigrp interfaces](#), on page 309
- [show ip eigrp metric](#), on page 311
- [show ip eigrp neighbors](#), on page 312
- [show ip eigrp route-map statistics redistribute](#), on page 316
- [show ip eigrp sia-event](#), on page 318
- [show ip eigrp sia-statistics](#), on page 319
- [show ip eigrp timers](#), on page 320
- [show ip eigrp traffic](#), on page 321
- [show ip extcommunity-list](#), on page 323
- [show ip fib adjacency](#), on page 324
- [show ip fib distribution](#), on page 325
- [show ip fib distribution capture](#), on page 326
- [show ip fib distribution clients](#), on page 327
- [show ip fib distribution mroute](#), on page 328
- [show ip fib distribution multicast](#), on page 330
- [show ip fib distribution multicast outgoing-interface-list](#), on page 331
- [show ip fib distribution state](#), on page 332
- [show ip fib interfaces](#), on page 333
- [show ip fib mroute](#), on page 334
- [show ip fib mroute](#), on page 336
- [show ip fib mroute txlist](#), on page 338
- [show ip fib route](#), on page 339
- [show ip fib route](#), on page 341
- [show ip fib route recovered](#), on page 343
- [show ip ftm statistics](#), on page 344
- [show ip ftp source-interface](#), on page 345
- [show ip ftp source-interface vrf all](#), on page 346
- [show ip http source-interface](#), on page 347
- [show ip http source-interface vrf all](#), on page 348
- [show ip igmp event-history](#), on page 349
- [show ip igmp groups](#), on page 350
- [show ip igmp interface show ip igmp interface](#), on page 352
- [show ip igmp local-groups](#), on page 355
- [show ip igmp policy statistics reports](#), on page 356
- [show ip igmp snooping](#), on page 357
- [show ip igmp snooping event-history](#), on page 359
- [show ip igmp snooping explicit-tracking](#), on page 360
- [show ip igmp snooping groups](#), on page 361
- [show ip igmp snooping lookup-mode](#), on page 364
- [show ip igmp snooping mac-oif](#), on page 365
- [show ip igmp snooping mrouter](#), on page 366
- [show ip igmp snooping otv vlan brief](#), on page 368

- [show ip igmp snooping pw vlan brief](#), on page 369
- [show ip igmp snooping querier](#), on page 370
- [show ip igmp snooping report statistics](#), on page 371
- [show ip igmp snooping snmp mib adminMode](#), on page 372
- [show ip igmp snooping snmp mib aliasingMode](#), on page 373
- [show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus](#), on page 374
- [show ip igmp snooping snmp mib explicitTrackingTable](#), on page 375
- [show ip igmp snooping snmp mib fallBackTime](#), on page 376
- [show ip igmp snooping snmp mib fastBlockEnabled](#), on page 377
- [show ip igmp snooping snmp mib fastleaveenabled](#), on page 378
- [show ip igmp snooping snmp mib filterStatsTable](#), on page 379
- [show ip igmp snooping snmp mib ifAccessGroupTable](#), on page 380
- [show ip igmp snooping snmp mib ifConfigTable](#), on page 381
- [show ip igmp snooping snmp mib ifLimitTable](#), on page 382
- [show ip igmp snooping snmp mib ifLimitTotalTable](#), on page 383
- [show ip igmp snooping snmp mib igmpsnoopingenabled](#), on page 384
- [show ip igmp snooping snmp mib iterfaceStatsTable](#), on page 385
- [show ip igmp snooping snmp mib lastMemeberQueryCount](#), on page 387
- [show ip igmp snooping snmp mib lastMemeberQueryInterval](#), on page 388
- [show ip igmp snooping snmp mib leaveQueryType](#), on page 389
- [show ip igmp snooping snmp mib mcastGroupTable](#), on page 390
- [show ip igmp snooping snmp mib mcastRouterCfgTable](#), on page 391
- [show ip igmp snooping snmp mib mcastRouterConfigTable](#), on page 392
- [show ip igmp snooping snmp mib multicastGroupConfigTable](#), on page 393
- [show ip igmp snooping snmp mib multicastGroupPortListTable](#), on page 395
- [show ip igmp snooping snmp mib multicastGroupTable](#), on page 397
- [show ip igmp snooping snmp mib operMode](#), on page 399
- [show ip igmp snooping snmp mib querierTable](#), on page 400
- [show ip igmp snooping snmp mib reportsuppressionenabled](#), on page 402
- [show ip igmp snooping snmp mib robustnessVariable](#), on page 403
- [show ip igmp snooping snmp mib routerAlertCheckEnabled](#), on page 404
- [show ip igmp snooping snmp mib sourceOnlyEntryAgingTime](#), on page 405
- [show ip igmp snooping snmp mib sourceOnlyLearningEnabled](#), on page 406
- [show ip igmp snooping snmp mib tcnFloodQueryCount](#), on page 407
- [show ip igmp snooping snmp mib timeToLiveCheckEnabled](#), on page 408
- [show ip igmp snooping snmp mib topoChanageQuerySolicitEnabled](#), on page 409
- [show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus](#), on page 410
- [show ip igmp snooping snmp mib v3SnoopingSupport](#), on page 411
- [show ip igmp snooping snmp mib vlanFilterConfigTable](#), on page 412
- [show ip igmp snooping snmp mib vlanconfigtable](#), on page 413
- [show ip igmp snooping statistics](#), on page 415
- [show ip igmp vrf all](#), on page 418
- [show ip interface](#), on page 419
- [show ip lisp](#), on page 423
- [show ip lisp data-cache](#), on page 424
- [show ip lisp locator-hash](#), on page 425

- [show ip lisp map-cache](#), on page 426
- [show ip lisp statistics](#), on page 427
- [show ip lisp translate-cache](#), on page 428
- [show ip lisp version-hash](#), on page 429
- [show ip load-sharing](#), on page 430
- [show ip local-pt](#), on page 431
- [show ip local policy](#), on page 432
- [show ip logging](#), on page 433
- [show ip mbgp](#), on page 434
- [show ip mbgp](#), on page 435
- [show ip mbgp community](#), on page 437
- [show ip mbgp dampening](#), on page 438
- [show ip mbgp extcommunity](#), on page 439
- [show ip mbgp flap-statistics](#), on page 440
- [show ip mbgp neighbors](#), on page 441
- [show ip mbgp nexthop-database](#), on page 443
- [show ip mbgp nexthop](#), on page 444
- [show ip mbgp prefix-list](#), on page 445
- [show ip mbgp received-paths](#), on page 446
- [show ip mroute](#), on page 447
- [show ip msdp count](#), on page 451
- [show ip msdp event-history](#), on page 452
- [show ip msdp mesh-group](#), on page 453
- [show ip msdp peer](#), on page 454
- [show ip msdp policy statistics sa-policy in](#), on page 456
- [show ip msdp rpf](#), on page 458
- [show ip msdp sa](#), on page 459
- [show ip msdp sources](#), on page 461
- [show ip msdp statistics](#), on page 462
- [show ip msdp summary](#), on page 464
- [show ip multicast vrf](#), on page 466
- [show ip nat max](#), on page 467
- [show ip nat statistics](#), on page 468
- [show ip nat timeout](#), on page 469
- [show ip nat translations](#), on page 470
- [show ip ospf](#), on page 471
- [show ip ospf border-routers](#), on page 476
- [show ip ospf database](#), on page 478
- [show ip ospf database database-summary](#), on page 480
- [show ip ospf database detail](#), on page 482
- [show ip ospf event-history](#), on page 487
- [show ip ospf event-history detail](#), on page 488
- [show ip ospf ha](#), on page 489
- [show ip ospf interface](#), on page 490
- [show ip ospf interface brief](#), on page 493
- [show ip ospf lsa-content-changed-list](#), on page 495

- [show ip ospf memory](#), on page 497
- [show ip ospf mpls ldp interface](#), on page 499
- [show ip ospf neighbors](#), on page 500
- [show ip ospf neighbors detail](#), on page 502
- [show ip ospf neighbors summary](#), on page 505
- [show ip ospf policy statistics](#), on page 507
- [show ip ospf request-list](#), on page 509
- [show ip ospf retransmission-list](#), on page 511
- [show ip ospf route](#), on page 513
- [show ip ospf route summary](#), on page 515
- [show ip ospf sham-links](#), on page 517
- [show ip ospf statistics](#), on page 521
- [show ip ospf summary-address](#), on page 525
- [show ip ospf traffic](#), on page 526
- [show ip ospf traps-queue](#), on page 530
- [show ip ospf virtual-links](#), on page 531
- [show ip ospf virtual-links brief](#), on page 535
- [show ip overlay-traffic](#), on page 536
- [show ip pim bitfield](#), on page 537
- [show ip pim config-sanity](#), on page 538
- [show ip pim df](#), on page 539
- [show ip pim event-history](#), on page 541
- [show ip pim fabric info](#), on page 542
- [show ip pim fabric legacy-vlans](#), on page 543
- [show ip pim group-range](#), on page 544
- [show ip pim interface show ip pim interface](#), on page 545
- [show ip pim lisp encap](#), on page 548
- [show ip pim mdt](#), on page 549
- [show ip pim mdt bgp](#), on page 551
- [show ip pim mdt history interval](#), on page 552
- [show ip pim mdt receive](#), on page 553
- [show ip pim mdt send](#), on page 554
- [show ip pim neighbor](#), on page 555
- [show ip pim oif-list](#), on page 557
- [show ip pim policy statistics](#), on page 559
- [show ip pim policy statistics jp](#), on page 560
- [show ip pim route](#), on page 561
- [show ip pim rp-hash](#), on page 564
- [show ip pim rp](#), on page 565
- [show ip pim statistics](#), on page 568
- [show ip pim vrf](#), on page 570
- [show ip ping source-interface](#), on page 571
- [show ip ping source-interface vrf all](#), on page 572
- [show ip policy](#), on page 573
- [show ip prefix-list](#), on page 574
- [show ip process](#), on page 575

- [show ip rip](#), on page 577
- [show ip rip interface](#), on page 579
- [show ip rip memory](#), on page 581
- [show ip rip neighbor](#), on page 582
- [show ip rip policy statistics redistribute](#), on page 584
- [show ip rip route](#), on page 585
- [show ip rip statistics](#), on page 587
- [show ip router-id](#), on page 589
- [show ip rsvp](#), on page 590
- [show ip rsvp authentication](#), on page 592
- [show ip rsvp counters](#), on page 594
- [show ip rsvp fast-reroute](#), on page 600
- [show ip rsvp hello client lsp](#), on page 603
- [show ip rsvp hello client neighbor](#), on page 604
- [show ip rsvp hello graceful-restart](#), on page 605
- [show ip rsvp hello instance](#), on page 606
- [show ip rsvp interface](#), on page 608
- [show ip rsvp neighbor](#), on page 611
- [show ip rsvp reservation](#), on page 613
- [show ip rsvp sender](#), on page 619
- [show ip rsvp session](#), on page 626
- [show ip rsvp signalling rate-limit](#), on page 627
- [show ip rsvp signalling refresh interval](#), on page 628
- [show ip rsvp signalling refresh misses](#), on page 629
- [show ip rsvp signalling refresh reduction](#), on page 630
- [show ip sla application](#), on page 631
- [show ip sla configuration](#), on page 632
- [show ip sla enhanced-history collection-statistics](#), on page 635
- [show ip sla enhanced-history distribution-statistics](#), on page 636
- [show ip sla group schedule](#), on page 637
- [show ip sla history](#), on page 638
- [show ip sla reaction-configuration](#), on page 639
- [show ip sla reaction-trigger](#), on page 640
- [show ip sla responder](#), on page 641
- [show ip sla statistics](#), on page 642
- [show ip ssh source-interface](#), on page 647
- [show ip ssh source-interface vrf all](#), on page 648
- [show ip static-route](#), on page 649
- [show ip stats](#), on page 651
- [show ip telnet source-interface](#), on page 652
- [show ip telnet source-interface vrf all](#), on page 653
- [show ip tftp source-interface](#), on page 654
- [show ip tftp source-interface vrf all](#), on page 655
- [show ip traceroute source-interface](#), on page 656
- [show ip traceroute source-interface vrf all](#), on page 657
- [show ip traffic](#), on page 658

- [show ip txlist list](#), on page 663
- [show ip verify source](#), on page 664
- [show ipv6 adjacency](#), on page 665
- [show ipv6 amt tunnel](#), on page 668
- [show ipv6 bgp](#), on page 670
- [show ipv6 bgp](#), on page 671
- [show ipv6 bgp](#), on page 672
- [show ipv6 bgp community](#), on page 673
- [show ipv6 bgp dampening](#), on page 674
- [show ipv6 bgp extcommunity](#), on page 675
- [show ipv6 bgp flap-statistics](#), on page 676
- [show ipv6 bgp neighbors](#), on page 677
- [show ipv6 bgp nexthop-database](#), on page 678
- [show ipv6 bgp nexthop](#), on page 679
- [show ipv6 bgp received-paths](#), on page 680
- [show ipv6 bgp regexp](#), on page 681
- [show ipv6 bgp summary](#), on page 682
- [show ipv6 cache](#), on page 683
- [show ipv6 client](#), on page 684
- [show ipv6 dhcp relay](#), on page 686
- [show ipv6 dhcp relay statistics](#), on page 687
- [show ipv6 eigrp route-map statistics redistribute](#), on page 689
- [show ipv6 fragments](#), on page 691
- [show ipv6 icmp](#), on page 692
- [show ipv6 icmp global traffic](#), on page 694
- [show ipv6 icmp interface](#), on page 697
- [show ipv6 icmp ndp](#), on page 702
- [show ipv6 icmp off-list](#), on page 703
- [show ipv6 icmp process sdb](#), on page 704
- [show ipv6 icmp vaddr](#), on page 705
- [show ipv6 icmp vpc-statistics](#), on page 709
- [show ipv6 interface](#), on page 712
- [show ipv6 interface global](#), on page 716
- [show ipv6 lisp data-cache](#), on page 717
- [show ipv6 local-pt](#), on page 718
- [show ipv6 local policy](#), on page 719
- [show ipv6 mld groups](#), on page 720
- [show ipv6 mld local-groups](#), on page 722
- [show ipv6 mld vrf all](#), on page 723
- [show ipv6 mroute](#), on page 724
- [show ipv6 mtu](#), on page 727
- [show ipv6 multicast vrf](#), on page 728
- [show ipv6 nd ra dns search-list](#), on page 729
- [show ipv6 nd ra dns server](#), on page 730
- [show ipv6 nd rt-pref global pt](#), on page 731
- [show ipv6 ndp](#), on page 732

- [show ipv6 neighbor static](#), on page 733
- [show ipv6 pim bitfield](#), on page 734
- [show ipv6 pim df](#), on page 735
- [show ipv6 pim embed-rp](#), on page 737
- [show ipv6 pim event-history](#), on page 738
- [show ipv6 pim fabric legacy-vlans](#), on page 739
- [show ipv6 pim group-range](#), on page 740
- [show ipv6 pim interface show ipv6 pim interface](#), on page 741
- [show ipv6 pim neighbor](#), on page 744
- [show ipv6 pim oif-list](#), on page 746
- [show ipv6 pim policy statistics jp](#), on page 747
- [show ipv6 pim route](#), on page 748
- [show ipv6 pim rp-hash](#), on page 749
- [show ipv6 pim rp](#), on page 750
- [show ipv6 pim statistics](#), on page 753
- [show ipv6 pim vrf](#), on page 755
- [show ipv6 policy](#), on page 756
- [show ipv6 prefix-list](#), on page 757
- [show ipv6 process](#), on page 758
- [show ipv6 process sdb](#), on page 760
- [show ipv6 rip policy statistics redistribute](#), on page 761
- [show ipv6 route](#), on page 762
- [show ipv6 routers](#), on page 765
- [show ipv6 static-route](#), on page 767
- [show ipv6 statistics](#), on page 768
- [show ipv6 traffic](#), on page 769
- [show isis](#), on page 771
- [show isis adjacency](#), on page 774
- [show isis csnp](#), on page 777
- [show isis database](#), on page 779
- [show isis event-history](#), on page 783
- [show isis hostname](#), on page 784
- [show isis interface](#), on page 785
- [show isis ipv6 redistribute route](#), on page 789
- [show isis ipv6 route-map statistics](#), on page 791
- [show isis lsp free-list](#), on page 793
- [show isis mesh-group](#), on page 794
- [show isis non tlv overflow-list](#), on page 795
- [show isis redistribute route](#), on page 796
- [show isis route-map statistics](#), on page 798
- [show isis route show isis ipv6 route show isis route is](#), on page 800
- [show isis rrm](#), on page 804
- [show isis spf-adjacency](#), on page 806
- [show isis spf-log](#), on page 808
- [show isis srm](#), on page 810
- [show isis ssn](#), on page 811

- [show isis statistics](#), on page 812
- [show isis summary-address](#) [show isis ipv6 summary-address](#), on page 813
- [show isis topology](#), on page 815
- [show isis traffic](#), on page 816
- [show itd](#), on page 818
- [show itd](#), on page 822
- [show itd session device-group](#), on page 826
- [show itd statistics](#), on page 827
- [show itd vrf](#), on page 829

show ieth-header-decode

show ieth-header-decode <ieth>

Syntax Description

show	Show running system information
ieth-header-decode	Show decode of ieth header
<i>ieth</i>	ieth header in hex (0xFF...) or string (FF..) form

Command Mode

- /exec

show imp client

show imp client

Syntax Description

show	Show running system information
imp	ipsec management process
client	Show ipsec clients name

Command Mode

- /exec

show imp client sa

show imp client sa

Syntax Description

show	Show running system information
imp	IPSec management process
client	IMP client
sa	Display all SAs

Command Mode

- /exec

show in-order-guarantee

show in-order-guarantee

Syntax Description

show	Show running system information
in-order-guarantee	show in-order delivery guarantee configuration

Command Mode

- /exec

show incompatibility-all system

```
show incompatibility-all { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat_all <Str1> [ <Serv> ] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] ] [ <Dynamic> ] } ]
```

Syntax Description

show	Show running system information
incompatibility-all	Show incompatible configurations for the entire system
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat_all	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

Command Mode

- /exec

show incompatibility system

```
show incompatibility { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat <Str1> [ <Serv>
] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] [ <Dynamic> ] } ] }
```

Syntax Description

show	Show running system information
incompatibility	Show incompatible configurations
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

Command Mode

- /exec

show install

```
show install { inactive | active [ brief ] | committed } [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list
<install_smu_id> + ] [ TABLE_package_list <package_id> ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
active	Active packages
brief	(Optional) Brief
committed	Committed packages
__readonly__	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional) install operation smu identifier
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name

Command Mode

- /exec

show install all failed-standby

```
show install all failed-standby [ __readonly__ { [ TABLE_installFailStandby <Str1> ] } ]
```

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	Show install all information
failed-standby	show log from failed standby
__readonly__	(Optional)
TABLE_installFailStandby	(Optional) Install failed-standby table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show install all failure-reason

```
show install all failure-reason [ __readonly__ { [ TABLE_installFailReason <installFailReasonStr> ] } ]
```

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
failure-reason	Show failure reason for the last install all
__readonly__	(Optional)
TABLE_installFailReason	(Optional) Install failure-reason table
<i>installFailReasonStr</i>	(Optional)

Command Mode

- /exec

show install all impact

show install all impact [nxos <uri>] + [non-disruptive]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
impact	show impact of the install all command
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri
non-disruptive	(Optional) non-disruptive show install

Command Mode

- /exec

show install all 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
<i>uri1</i>	Local URI containing EPLD Image

Command Mode

- /exec

show install all status

show install all status

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
status	show status of the current or last install all

Command Mode

- /exec

show install 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 Mode

- /exec

show install impact

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}
<i>uri0</i>	Enter system URI

Command Mode

- /exec

show install impact

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}
<i>uri0</i>	Enter system URI
<i>uri1</i>	Enter active URI

Command Mode

- /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}
<i>uri0</i>	Enter system URI
detail	Show detailed install impact of given system image

Command Mode

- /exec

show install log

```
show install log { [ <id> | from <id1> ] [ detail ] [ reverse ] [ last ] } [ __readonly__ { current_time <curr_time>
[ TABLE_show_log_output <install_id> <install_log_entry> + ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
log	log
<i>id</i>	(Optional) Install Identifies
from	(Optional) Starting at this install identifier
<i>id1</i>	(Optional) Install Identifier
detail	(Optional) Detailed information including impacted processes
reverse	(Optional) Displays the logs in reverse order
last	(Optional) Display the logs for last install operation
__readonly__	(Optional)
current_time	(Optional) current time
<i>curr_time</i>	(Optional) current time
TABLE_show_log_output	(Optional)
<i>install_id</i>	(Optional) install operation id
<i>install_log_entry</i>	(Optional) install log entry

Command Mode

- /exec

show install packages

```
show install packages [ __readonly__ { <curr_nxos_image> [ TABLE_package_list <package_name>
<version> <state> ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
packages	All packages
<i>__readonly__</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
TABLE_package_list	(Optional)
<i>package_name</i>	(Optional) Package name
<i>version</i>	(Optional) Package version
<i>state</i>	(Optional) package state

Command Mode

- /exec

show install patches

```
show install patches [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list <install_smu_id>
<install_smu_state> [ TABLE_module_list <install_modno> <install_mod_smu_state> ] ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
patches	All Patches
<i>__readonly__</i>	(Optional)
<i>TABLE_smu_list</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
<i>install_smu_id</i>	(Optional) install operation smu identifier
<i>install_smu_state</i>	(Optional) install operation smu state
<i>TABLE_module_list</i>	(Optional)
<i>install_modno</i>	(Optional) install operation module number
<i>install_mod_smu_state</i>	(Optional) install operation module state

Command Mode

- /exec

show_interface

show_interface <single>

Syntax Description

show_interface	Port_mgr hidden command
<i>single</i>	interface type and number in module/slot format

Command Mode

- /exec

show interface

```

show interface <ifid> [ brief | quick ] [ __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_runs> ] [ <eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame>
] [ <eth_overrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [
<eth_outucast> ] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [
<eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [
<eth_outhw_switched> ] [ <eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [
<eth_babbles> ] [ <eth_latecoll> ] [ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll>
] [ <eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [
<eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [
<eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [
<eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost>
] [ <eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [
<eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [
<eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [
<eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec>
] [ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [
<svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [
<svi_ipv4_ucast_pkts_out> ] [ <svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [
<svi_ipv4_mcast_bytes_in> ] [ <svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [
<svi_ipv6_ucast_pkts_in> ] [ <svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [
<svi_ipv6_ucast_bytes_out> ] [ <svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [
<svi_ipv6_mcast_pkts_out> ] [ <svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [
<svi_average_input_packets> ] [ <svi_average_output_bits> ] [ <svi_average_output_packets> ] [
<svi_rate_in_mins> ] [ <svi_reliability> ] <switchport> ]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>desc</i>	(Optional) Interface description
<i>switchport</i>	(Optional) Switchport enabled
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value

<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts

<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts

<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overnrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched

<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes

<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets

<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>svi_reliability</i>	(Optional) Reliability

Command Mode

- /exec

show interface

```
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_ether_type> ] [
<eth_members> ] [ <eth_clk_mode> ] [ <eth_arp_type> ] [ <eth_arp_timeout> ] [ <eth_last_in> ] [
<eth_last_out> ] [ <eth_out_hang> ] [ <eth_clear_counters> ] [ <eth_link_flapped> ] [ <eth_inq_size> ] [
<eth_inq_max> ] [ <eth_inq_drops> ] [ <eth_inq_flush> ] [ <eth_out_drop> ] [ <eth_q_strategy> ] [
<eth_outq_size> ] [ <eth_outq_max> ] [ <eth_reset_cntr> ] [ <mgmt_hw_desc> ] [ <mgmt_hw_addr> ] [
<mgmt_ip_addr> ] [ <mgmt_ip_mask> ] [ <mgmt_mtu> ] [ <mgmt_speed> ] [ <mgmt_duplex> ] [
<vdc_lvl_in_avg_bits> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_out_avg_bits> ] [ <vdc_lvl_out_avg_pkts>
] [ <vdc_lvl_in_pkts> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bytes> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_ucast>
] [ <vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_bps> ] [
<vdc_lvl_out_pps> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt</i>	Enter interface type and number in module/slot format
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_dce_mode</i>	(Optional) DCE mode description
<i>vpc_status</i>	(Optional) VPC status
<i>eth_hw_desc</i>	(Optional) HW description

<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherType</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode

<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queuing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>mgmt_hw_desc</i>	(Optional) HW description
<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets

<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second

Command Mode

- /exec

show interface

```

show interface [ controller | quick ] [ __readonly__ TABLE_interface <interface> [ <state> ] [ <state_rsn_desc>
] [ <state_rsn> ] [ <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_sw_t_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> ] <switchport> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
controller	(Optional) Show controller configured interfaces
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>switchport</i>	(Optional) Switchport enabled
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface

<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherType</i>	(Optional) EtherType

<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts

<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC

<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>mgmt_hw_desc</i>	(Optional) HW description

<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors

<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets

<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time

<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared

<i>TABLE_sec_vlan</i>	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>svi_reliability</i>	(Optional) Reliability
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes

<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted beast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted beast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface

```
show interface <ifloop> [ __readonly__ TABLE_interface <interface> [ <state> ] [ <admin_state> ] [
<share_state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <eth_bundle> ] [ <mgmt_sfp> ] [ <mgmt_type> ]
] [ <eth_eee_state> ] [ <eth_dce_mode> ] [ <vpc_status> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [
<eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ]
] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <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_cnt> ] [ <loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [
<loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo> ]
] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns> ] [ <loop_out_errors> ] [
<loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin_state</i>	(Optional) Interface admin state
<i>share_state</i>	(Optional) Interface ownership
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>mgmt_sfp</i>	(Optional) mgmt sfp
<i>mgmt_type</i>	(Optional) mgmt type
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_dce_mode</i>	(Optional) DCE mode description

<i>vpc_status</i>	(Optional) VPC status
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP Prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor

<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queuing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overn</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes

<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface

```
show interface <iftun_desc> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<desc> ] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type>
<keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> }
<dest-hostname> <vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
<tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header

<i>tll_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface

```
show interface <ifeth> [ quick ] [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ]
[ <state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <parent_interface> ]
] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [
<eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_encap_vlan> ] [ <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> ] <switchport> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth</i>	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility

<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol

<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts

<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts

<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier

<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>switchport</i>	(Optional) Switchport enabled

Command Mode

- /exec

show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> <state_rsn> <state_rsn_desc>
<desc> [ <overlay_addr> ] [ <overlay_addr_mask> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [
<overlay_encap_str> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [ <overlay_dst_addr> ] [
<overlay_last_link_flap> ] [ <overlay_clear_counters> ] [ <overlay_load_interval> ] [ <overlay_rx_ucastpkts>
] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [ <overlay_rx_mcastbytes> ] [ <overlay_rx_pkts>
] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [ <overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [
<overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [ <overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ]
[ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts> ] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ]
[ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [ <overlay_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters

<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <admin_state> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <vpc_status> ] [
<eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload>
] [ <eth_encap_vlan> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ]
[ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [
<eth_swt_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters>
] [ <eth_reset_cntr> ] [ <nve_addr> ] [ <nve_addr_mask> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth>
] [ <nve_encap_str> ] [ <nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] [ <nve_last_link_flap> ] [
<nve_clear_counters> ] [ <nve_load_interval> ] [ <nve_rx_ucastpkts> ] [ <nve_rx_ucastbytes> ] [
<nve_rx_mcastpkts> ] [ <nve_rx_mcastbytes> ] [ <nve_rx_pkts> ] [ <nve_rx_bytes> ] [ <nve_rx_bcastpkts>
] [ <nve_rx_bcastbytes> ] [ <nve_rx_bitrate> ] [ <nve_rx_pktrate> ] [ <nve_tx_ucastpkts> ] [
<nve_tx_ucastbytes> ] [ <nve_tx_mcastpkts> ] [ <nve_tx_mcastbytes> ] [ <nve_tx_bcastpkts> ] [
<nve_tx_bcastbytes> ] [ <nve_tx_pkts> ] [ <nve_tx_bytes> ] [ <nve_tx_bitrate> ] [ <nve_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>admin_state</i>	(Optional) admin state
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address

<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>nve_addr</i>	(Optional) Peer address
<i>nve_addr_mask</i>	(Optional) Peer address mask
<i>nve_vcids</i>	(Optional) VCID

<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_encap_str</i>	(Optional) Encap type
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address
<i>nve_last_link_flap</i>	(Optional) Last link flap
<i>nve_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>nve_load_interval</i>	(Optional) Load interval
<i>nve_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>nve_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>nve_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>nve_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>nve_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>nve_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>nve_rx_pkts</i>	(Optional) Total received pkts
<i>nve_rx_bytes</i>	(Optional) Total received bytes
<i>nve_rx_bitrate</i>	(Optional) Receive bit rate
<i>nve_rx_pktrate</i>	(Optional) Receive pkt rate
<i>nve_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>nve_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>nve_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>nve_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>nve_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>nve_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>nve_tx_pkts</i>	(Optional) Total transmitted pkts
<i>nve_tx_bytes</i>	(Optional) Total transmitted bytes
<i>nve_tx_bitrate</i>	(Optional) Transmit bit rate
<i>nve_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface

```
show interface <ifid_brief1> [ brief ] [ __readonly__ TABLE_interface [ <interface_vfc> ] [ <vsan_brief> ]
[ <oper_port_state> ] [ <port_state> ] [ <bound_interface> ] [ <mgmt_hw_desc1> ] [ <mgmt_hw_addr1> ] [
<port_name> ] [ <hardware> ] [ <sfp> ] [ <port_wwn> ] [ <peer_port_wwn> ] [ <admin_mode> ] [
<admin_trunk_mode> ] [ <snmp_trap> ] [ <status> ] [ <state_rsn1> ] [ <fcot_info> ] [ <bind_info> ] [
<bind_type> ] [ <port_mode> ] [ <fcid> ] [ <cfg_port_vsan> ] [ <vsan> ] [ <port_rate_mode> ] [ <oper_speed>
] [ <port_channel> ] [ <ip_addr1> ] [ <oper_txbbcredit> ] [ <oper_rxbbcredit> ] [ <port_bb_scn> ] [
<admin_rxbufsize> ] [ <admin_port_encap> ] [ <admin_beacon_mode> ] [ <admin_fec_state> ] [
<oper_fec_state> ] [ <bundle_if_index> ] [ <trkd_if_index> ] [ <trk_cfg_vsans> ] [ <trkd_port_state> ] [
<num_ports> ] [ TABLE_trk_intf [ <trk_intf> ] ] [ <info_type_num> ] [ <info_model_num> ] [
<info_manufacturer> ] [ <info_port_id> ] [ <active_vsan> ] [ <trunk_vsan_up> ] [ <trunk_vsan_isolated> ]
[ <trunk_vsan_initializing> ] [ TABLE_members [ <port_channel_member> ] ] [ <in_bps> ] [ <in_byps> ]
[ <in_fps> ] [ <out_bps> ] [ <out_byps> ] [ <out_fps> ] [ <total_in_frames> ] [ <total_in_bytes> ] [
<total_in_discards> ] [ <total_in_errors> ] [ <invalid_crc> ] [ <unknown_class_frames> ] [ <frames_too_long>
] [ <frames_too_short> ] [ <total_out_frames> ] [ <total_out_bytes> ] [ <total_out_discards> ] [
<total_out_errors> ] [ <in_ols> ] [ <in_lrr> ] [ <in_nos> ] [ <in_loop_inits> ] [ <out_ols> ] [ <out_lrr> ] [
<out_nos> ] [ <out_loop_inits> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [
<tx_b2b_low_pri_cre> ] [ <fcoe_in_pkts> ] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ]
[ <interface_last_changed> ] [ <time_last_cleared> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_brief1</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
__readonly__	(Optional) Read Only
<i>interface_vfc</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vsan_brief</i>	(Optional) vsan for brief
<i>oper_port_state</i>	(Optional) oper port state
<i>port_state</i>	(Optional) port state
<i>bound_interface</i>	(Optional) bound interface
<i>mgmt_hw_desc1</i>	(Optional) HW description
<i>mgmt_hw_addr1</i>	(Optional) HW address
<i>port_name</i>	(Optional) port description
<i>hardware</i>	(Optional) Hardware is

<i>sfp</i>	(Optional) sfp
<i>port_wwn</i>	(Optional) port wwn
<i>peer_port_wwn</i>	(Optional) peer port wwn
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>snmp_trap</i>	(Optional) snmp trap
<i>status</i>	(Optional) Status
<i>state_rsnl</i>	(Optional) state reason
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>port_mode</i>	(Optional) port mode
<i>fcid</i>	(Optional) fcid
<i>cfg_port_vsan</i>	(Optional) config port vsan
<i>vsan</i>	(Optional) vsan for brief
<i>port_rate_mode</i>	(Optional) operation port rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel
<i>ip_addr1</i>	(Optional) Ip address
<i>oper_txbcredit</i>	(Optional) oper tx bbcredit
<i>oper_rxbcredit</i>	(Optional) oper rx bbcredit
<i>port_bb_scn</i>	(Optional) port bb scn
<i>admin_rxbufsize</i>	(Optional) admin rx bufsize
<i>admin_port_encap</i>	(Optional) admin port encap
<i>admin_beacon_mode</i>	(Optional) admin beacon mode
<i>admin_fec_state</i>	(Optional) admin fec state
<i>oper_fec_state</i>	(Optional) oper fec state
<i>bundle_if_index</i>	(Optional) bundle if index
<i>trkd_if_index</i>	(Optional) Trunk interfaces

<i>trk_cfg_vsans</i>	(Optional) Trunk vsans
<i>trkd_port_state</i>	(Optional) trunk port state
<i>num_ports</i>	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
<i>trk_intf</i>	(Optional) track interface
<i>info_type_num</i>	(Optional) info type num
<i>info_model_num</i>	(Optional) info model num
<i>info_manufacturer</i>	(Optional) info manufacturer
<i>info_port_id</i>	(Optional) info port id
<i>active_vsan</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing</i>	(Optional) trunk vsan initializing
TABLE_members	(Optional) table for port-channel member interface
<i>port_channel_member</i>	(Optional) port-channel member interface
<i>in_bps</i>	(Optional) input bits/sec
<i>in_byps</i>	(Optional) input bytes/sec
<i>in_fps</i>	(Optional) input frames/sec
<i>out_bps</i>	(Optional) output bits/sec
<i>out_byps</i>	(Optional) output bytes/sec
<i>out_fps</i>	(Optional) output frames/sec
<i>total_in_frames</i>	(Optional) total in frames
<i>total_in_bytes</i>	(Optional) total in bytes
<i>total_in_discards</i>	(Optional) total in discards
<i>total_in_errors</i>	(Optional) total in errors
<i>invalid_crc</i>	(Optional) invalid crc
<i>unknown_class_frames</i>	(Optional) unknown class frames
<i>frames_too_long</i>	(Optional) frames too long
<i>frames_too_short</i>	(Optional) frames too short

<i>total_out_frames</i>	(Optional) total out frames
<i>total_out_bytes</i>	(Optional) total out bytes
<i>total_out_discards</i>	(Optional) total out discards
<i>total_out_errors</i>	(Optional) total out errors
<i>in_ols</i>	(Optional) input OLS
<i>in_lrr</i>	(Optional) input LRR
<i>in_nos</i>	(Optional) input NOS
<i>in_loop_inits</i>	(Optional) input loop inits
<i>out_ols</i>	(Optional) output OLS
<i>out_lrr</i>	(Optional) output LRR
<i>out_nos</i>	(Optional) output NOS
<i>out_loop_inits</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit</i>	(Optional) rx b2b credit
<i>tx_b2b_credit</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets
<i>interface_last_changed</i>	(Optional) interface last changed
<i>time_last_cleared</i>	(Optional) counters last cleared

Command Mode

- /exec

show interface

show interface <ifid_brief2> [brief]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_brief2</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface

Command Mode

- /exec

show interface aggregate-counters

show interface <ifid_aggr_ctrs2> aggregate-counters [brief]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_aggr_ctrs2</i>	Enter interface type and number in module/slot format
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief

Command Mode

- /exec

show interface aggregate-counters

```
show interface <ifid_aggr_ctrs> aggregate-counters [ brief ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_aggr_ctrs</i>	Enter interface type and number in module/slot format
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief

Command Mode

- /exec

show interface aggregate-counters

show interface aggregate-counters [brief]

Syntax Description

show	Show running system information
interface	Show interface status and information
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief

Command Mode

- /exec

show interface bbcredit

show interface <ifid_bbcrd> bbcredit

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_bbcrd</i>	Enter interface type and number in module/slot format
bbcredit	Show BB_credit information for interface

Command Mode

- /exec

show interface brief

```
show interface <ifpch_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <proto> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifpch_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>proto</i>	(Optional) Port Channel Protocol

Command Mode

- /exec

show interface brief

```
show interface brief [ controller | cli ] [ __readonly__ TABLE_interface [ <interface> ] [ <vlan> ] [ <type> ]
[ <portmode> ] [ <state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <vrf> ] [ <ipv6_addr> ] [ <ip_addr>
] [ <speed> ] [ <mtu> ] [ <ratemode> ] [ <portchan> ] [ <proto> ] [ <interface_vfc> ] [ <vsan_brief> ] [
<admin_mode> ] [ <admin_trunk_mode> ] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [
<port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
brief	Show brief info of interface
controller	(Optional) Show controller configured interfaces
cli	(Optional) Show CLI configured interfaces
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>vrf</i>	(Optional) Vrf membership
<i>ip_addr</i>	(Optional) IP address
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership
<i>proto</i>	(Optional) Port Channel Protocol
<i>interface_vfc</i>	(Optional) Interface index

<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr1</i>	(Optional) IP address

Command Mode

- /exec

show interface brief

```
show interface <ifloop_brf> brief [ __readonly__ TABLE_interface <interface> <state> [ <desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>desc</i>	(Optional) Interface description

Command Mode

- /exec

show interface brief

```
show interface <iftunnel_brf> brief [ __readonly__ TABLE_interface <interface> <state> <admin-state> {
<tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries>
{ <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name>
<wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu> <tunnel_pmtud>
<tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count>
<tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftunnel_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value

<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface brief

```
show interface <ifmgmt_brf> brief [ __readonly__ TABLE_interface <interface> [ <vrf> ] <state> [
<ipv6_addr> ] [ <ip_addr> ] <mtu> <speed> [ <duplex> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vrf</i>	(Optional) Vrf membership
<i>state</i>	(Optional) Interface state
<i>ip_addr</i>	(Optional) IP address
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex

Command Mode

- /exec

show interface brief

```
show interface <ifeth_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <portchan> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership

Command Mode

- /exec

show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [
<overlay_dst_addr> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address

Command Mode

- /exec

show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <admin_state> ] [ <nve_addr> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth> ] [
<nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state
<i>nve_addr</i>	(Optional) Peer address
<i>nve_vcid</i>	(Optional) VCID
<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address

Command Mode

- /exec

show interface cable-diagnostics-tdr

```
show interface <ifid_tdr> cable-diagnostics-tdr [ __readonly__ TABLE_interface <interface> <speed>
<distance1> <pair1_status> <distance2> <pair2_status> <distance3> <pair3_status> <distance4> <pair4_status>
]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_tdr</i>	Enter interface type and number in module/slot format
cable-diagnostics-tdr	Show interface tdr test information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>speed</i>	(Optional) Speed
<i>distance1</i>	(Optional) Distance to fault for pair 1
<i>distance2</i>	(Optional) Distance to fault for pair 2
<i>distance3</i>	(Optional) Distance to fault for pair 3
<i>distance4</i>	(Optional) Distance to fault for pair 4
<i>pair1_status</i>	(Optional) Pair1 status
<i>pair2_status</i>	(Optional) Pair2 status
<i>pair3_status</i>	(Optional) Pair3 status
<i>pair4_status</i>	(Optional) Pair4 status

Command Mode

- /exec

show interface capabilities

```
show interface <ifid_eth_cap> capabilities [ __readonly__ TABLE_interface <interface> <model> <type>
<speed> <duplex> <trunk_encap> <dce_capable> <channel> <bcast_supp> <flo_ctrl> <rate_mode>
<port_mode> [ <fast_start> ] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span>
<udld> [ <mdix> ] [ <tdr> ] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [
<pvlan_trunk_mode> ] [ <port_group> ] [ <port_group_members> ] <eee_capable> <pfc_capable>
<speed_group_capable> <buffer_boost_capable> [ <bkout_capable> ] [ <macsec_capable> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_eth_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite

<i>inline_power</i>	(Optional) Inline power
<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

Command Mode

- /exec

show interface capabilities

```
show interface capabilities [ __readonly__ TABLE_interface <interface> <model> <type> <speed> <duplex>
<trunk_encap> <dce_capable> <channel> <bcast_supp> <flo_ctrl> <rate_mode> <port_mode> [ <fast_start>
] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span> <udld> [ <mdix> ] [ <tdr> ]
<lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [ <pvlan_trunk_mode> ] [ <port_group>
] [ <port_group_members> ] <eee_capable> <pfc_capable> <speed_group_capable> <buffer_boost_capable>
[ <bkout_capable> ] [ <macsec_capable> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite
<i>inline_power</i>	(Optional) Inline power

<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

Command Mode

- /exec

show interface capabilities

show interface <ifid_cap> capabilities

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information

Command Mode

- /exec

show interface counters

```
show interface <ifid_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

Command Mode

- /exec

show interface counters

```
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	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts

<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

```
show interface 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__	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

```
show interface <ifeth_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes>
] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

```
show interface <ifrange> counters [ __readonly__ TABLE_interface <interface> [ <overlay_load_interval>
] [ <overlay_rx_ucastpkts> ] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [
<overlay_rx_mcastbytes> ] [ <overlay_rx_pkts> ] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [
<overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [ <overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [
<overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ] [ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts> ] [
<overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ] [ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [
<overlay_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes

<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted beast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted beast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface counters

```
show interface <ifrange> counters [ __readonly__ { TABLE_nve_counters <interface> [ <ucast_inbytes> ]
[ <ucast_inpkts> ] [ <ucast_outbytes> ] [ <ucast_outpkts> ] [ <mcast_inbytes> ] [ <mcast_inpkts> ] [
<mcast_outbytes> ] [ <mcast_outpkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_nve_counters	(Optional) show interface
<i>ucast_inbytes</i>	(Optional) ucast bytes input
<i>ucast_inpkts</i>	(Optional) ucast packets input
<i>ucast_outbytes</i>	(Optional) ucast bytes output
<i>ucast_outpkts</i>	(Optional) ucast packets output
<i>mcast_inbytes</i>	(Optional) mcast bytes input
<i>mcast_inpkts</i>	(Optional) mcast packets input
<i>mcast_outbytes</i>	(Optional) mcast bytes output
<i>mcast_outpkts</i>	(Optional) mcast packets output

Command Mode

- /exec

show interface counters

show interface <ifid_ctr> counters [brief]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	(Optional) Show interface counters in brief

Command Mode

- /exec

show interface counters brief

```
show interface <ifeth_ctr_brf> counters brief [ <counter_val> ] [ __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
<i>ifeth_ctr_brf</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps

<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)
-----------------------	---

Command Mode

- /exec

show interface counters brief

```
show interface counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface> <eth_inrate1>
<eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv1> <eth_inrate2> <eth_inframes2>
<eth_outrate2> <eth_outframes2> <eth_load_intv2> <eth_inrate3> <eth_inframes3> <eth_outrate3>
<eth_outframes3> <eth_load_intv3> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps
<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)

Command Mode

- /exec

show interface counters detailed

```

show interface counters detailed [ snmp ] [ __readonly__ TABLE interface <interface> [ <vdc_lvl_in_pkts>
] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_in_avg_bytes> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [
<vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [ <vdc_lvl_out_avg_pkts> ] [
<vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [ <mgmt_in_mcast> ] [
<mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [ <mgmt_in_overrun> ] [
<mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_out_underruns> ] [
<mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_coll> ] [ <mgmt_multi_coll> ] [ <mgmt_late_coll> ] [ <mgmt_excess_coll>
] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <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_runs> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [
<eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [
<eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr>
] [ <eth_outerr> ] [ <eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [
<eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [
<eth_symbol> ] [ <eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [
<eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost>
] [ <eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ]
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <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	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second

<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense

<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>eth_load_intervall</i>	(Optional) interval 1 timer value in sec
<i>eth_load_intervall_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_intervall_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec

<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors

<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts

<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures

<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability

Command Mode

- /exec

show interface counters detailed

```
show interface <ifmgmt_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [
<vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_in_avg_bytes> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [
<vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [
<vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [
<mgmt_in_mcast> ] [ <mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [
<mgmt_in_overrun> ] [ <mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [
<mgmt_out_underruns> ] [ <mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [
<mgmt_out_carrier> ] [ <mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [
<mgmt_undersize> ] [ <mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col>
] [ <mgmt_excess_col> ] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err>
] [ <mgmt_deferred_tx> ] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets

<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard

<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters detailed

```
show interface <ifloop_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ]
[ <loop_in_frame> ] [ <loop_in_overnun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [
<loop_out_underruns> ] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [
<loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overnun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed

```
show interface <ifeth_ctr_dtl> counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_load_interval1> ] [ <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_runs> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [
<eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [
<eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr>
] [ <eth_outerr> ] [ <eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [
<eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [
<eth_symbol> ] [ <eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [
<eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost>
] [ <eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ]
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec

<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes

<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier

<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets

<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched

<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifid_ctr_dtl_all> counters detailed all [ snmp ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
snmp	(Optional) Show SNMP MIB values

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifmgmt_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ][ <vdc_lvl_in_bytes> ][ <vdc_lvl_in_ucast> ][ <vdc_lvl_in_mcast> ][
<vdc_lvl_in_bcast> ][ <vdc_lvl_in_bps> ][ <vdc_lvl_in_pps> ][ <vdc_lvl_in_avg_pkts> ][
<vdc_lvl_in_avg_bytes> ][ <vdc_lvl_out_pkts> ][ <vdc_lvl_out_bytes> ][ <vdc_lvl_out_ucast> ][
<vdc_lvl_out_mcast> ][ <vdc_lvl_out_bcast> ][ <vdc_lvl_out_bps> ][ <vdc_lvl_out_pps> ][
<vdc_lvl_out_avg_pkts> ][ <vdc_lvl_out_avg_bytes> ][ <mgmt_in_pkts> ][ <mgmt_in_bytes> ][
<mgmt_in_mcast> ][ <mgmt_out_pkts> ][ <mgmt_out_bytes> ][ <mgmt_in_errors> ][ <mgmt_out_errors>
][ <mgmt_in_fifo> ][ <mgmt_out_fifo> ][ <mgmt_in_compressed> ][ <mgmt_in_frame> ][
<mgmt_in_overrun> ][ <mgmt_out_underruns> ][ <mgmt_out_collisions> ][ <mgmt_out_carrier> ][
<mgmt_align_err> ][ <mgmt_fcs_err> ][ <mgmt_xmit_err> ][ <mgmt_rcv_err> ][ <mgmt_undersize> ][
<mgmt_outdisc> ][ <mgmt_single_col> ][ <mgmt_multi_col> ][ <mgmt_late_col> ][ <mgmt_excess_col>
][ <mgmt_carri_sen> ][ <mgmt_runts> ][ <mgmt_giants> ][ <mgmt_sqetest_err> ][ <mgmt_deferred_tx>
][ <mgmt_inmactx_err> ][ <mgmt_inmacrx_err> ][ <mgmt_symbol_err> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes

<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overnun</i>	(Optional) Input overrun
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize

<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifloop_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_mcast_pkts> ] [ <rx_octets> ] [ <tx_octets> ] [ <loop_in_pkts> ]
[ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_octets</i>	(Optional) output bytes
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets

<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifrange> counters detailed all [ snmp ] [ __readonly__ TABLE_interface <interface> [
<svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [ <svi_routed_bytes_out> ] [
<svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [ <svi_mcast_bytes_in> ] [
<svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [ <svi_mcast_bytes_out> ] [
<svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [ <svi_ipv4_ucast_pkts_out> ] [
<svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [ <svi_ipv4_mcast_bytes_in> ] [
<svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [ <svi_ipv6_ucast_pkts_in> ] [
<svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [ <svi_ipv6_ucast_bytes_out> ] [
<svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [ <svi_ipv6_mcast_pkts_out> ] [
<svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [ <svi_average_input_packets> ] [
<svi_average_output_bits> ] [ <svi_average_output_packets> ] [ <svi_rate_in_mins> ] [
<svi_time_last_cleared> ] [ <svi_tx_load> ] [ <svi_rx_load> ] [ <svi_reliability> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifeth_ctr_dtl_all> counters detailed all [ snmp ] [ __readonly__ TABLE interface <interface>
[ <rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_ucast_pkts> ] [ <rx_mcast_pkts> ] [ <rx_bcast_pkts> ] [
<rx_octets> ] [ <tx_ucast_pkts> ] [ <tx_mcast_pkts> ] [ <tx_bcast_pkts> ] [ <tx_octets> ] [
<rxtx_pkts_64octets> ] [ <rxtx_pkts_65_127octets> ] [ <rxtx_pkts_128_255octets> ] [
<rxtx_pkts_256_511octets> ] [ <rxtx_pkts_512_1023octets> ] [ <rxtx_pkts_1024_1518octets> ] [
<rxtx_pkts_1519_1548octets> ] [ <rx_trunk_frames> ] [ <tx_trunk_frames> ] [ <rx_drop_events> ] [
<rxtx_giants> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_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_outrun> ] [ <eth_ignored> ] [ <eth_watchdog> ]
[ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast> ] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ]
[ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [
<eth_underrun> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [
<eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ] [ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ]
[ <eth_outpause> ] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ]
[ <eth_single_coll> ] [ <eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [
<eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ]
[ <eth_inb64> ] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ]
[ <eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ]
[ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [
<eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ]
[ <eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [
<eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [
<eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [
<eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ]
[ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters

detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_ucast_pkts</i>	(Optional) input unicasts
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_bcast_pkts</i>	(Optional) input broadcasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_ucast_pkts</i>	(Optional) output unicasts
<i>tx_mcast_pkts</i>	(Optional) output multicasts
<i>tx_bcast_pkts</i>	(Optional) output broadcasts
<i>tx_octets</i>	(Optional) output bytes
<i>rxtx_pkts_64octets</i>	(Optional) all pkts between 0 and 64 bytes
<i>rxtx_pkts_65_127octets</i>	(Optional) all pkts between 65 and 127 bytes
<i>rxtx_pkts_128_255octets</i>	(Optional) all pkts between 128 and 255 bytes
<i>rxtx_pkts_256_511octets</i>	(Optional) all pkts between 256 and 511 bytes
<i>rxtx_pkts_512_1023octets</i>	(Optional) all pkts between 512 and 1023 bytes
<i>rxtx_pkts_1024_1518octets</i>	(Optional) all pkts between 1024 and 1518 bytes
<i>rxtx_pkts_1519_1548octets</i>	(Optional) all pkts between 1519 and 1548 bytes
<i>rx_trunk_frames</i>	(Optional) input trunk pkts
<i>tx_trunk_frames</i>	(Optional) output trunk pkts
<i>rx_drop_events</i>	(Optional) dropped pkts
<i>rxtx_giants</i>	(Optional) giants
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec

<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts

<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcstpks</i>	(Optional) L3 out switched bcstpks
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched

<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision

<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes

<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter

Command Mode

- /exec

show interface counters details

```
show interface <ifid_ctr_det> counters details [ __readonly__ TABLE_interface <interface> [ <fcoe_in_pkts>
] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_det</i>	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets

Command Mode

- /exec

show interface counters details

show interface <ifid_ctr_det2> counters details

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_det2</i>	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail

Command Mode

- /exec

show interface counters errors

```
show interface <ifeth_ctr_errs> counters errors [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters
snmp	(Optional) Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants
<i>eth_sqetest_err</i>	(Optional) SQETest error

<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters errors

```
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	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants
<i>eth_sqetest_err</i>	(Optional) SQETest error

<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters errors

show interface <loop_ctr_errs> counters errors

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>loop_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters

Command Mode

- /exec

show interface counters 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
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants
<i>eth_sqetest_err</i>	(Optional) SQETest error

<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error

Command Mode

- /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
<i>mod_num</i>	Enter fex ID
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

Command Mode

- /exec

show interface counters 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	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters 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
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

Command Mode

- /exec

show interface counters storm-control

```
show interface <ifeth_ctr_stm_ctrl> counters storm-control [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_stm_ctrl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
storm-control	Show interface storm-control counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters storm-control

```
show interface counters storm-control [ module <module> ] [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
storm-control	Show interface storm-control counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters table

show interface counters table [verbose]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	(Optional) show errors counts after counters

Command Mode

- /exec

show interface counters trunk

```
show interface <ifeth_ctr_trnk> counters trunk [ __readonly__ TABLE_interface <interface> [
<eth_trunk_frames_tx> ] [ <eth_trunk_frames_rx> ] [ <eth_wrong_encap> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_trnk</i>	Enter interface type and number in module/slot format
counters	Show interface counters
trunk	Show interface trunk counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>eth_trunk_frames_tx</i>	(Optional) Trunk frame transmitted
<i>eth_trunk_frames_rx</i>	(Optional) Trunk frames received
<i>eth_wrong_encap</i>	(Optional) Wrong encapsulation

Command Mode

- /exec

show interface debounce

```
show interface debounce [ __readonly__ TABLE_interface <interface> <debounce> <debounce_val> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
debounce	Show interface debounce time information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

Command Mode

- /exec

show interface debounce

```
show interface <ifeth_dbnc> debounce [ __readonly__ TABLE_interface <interface> <debounce>
<debounce_val> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_dbnc</i>	Enter interface type and number in module/slot format
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

Command Mode

- /exec

show interface description

show interface <ifid> description [__readonly__ <start> <if_index> <LINE>]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
description	Interface specific description
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>LINE</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifid_mgmt_loop> description [ __readonly__ TABLE_interface <interface> [ <state> ] [
<protocol> ] [ <desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_mgmt_loop</i>	Enter interface type and number in module/slot format
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <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
<i>ifid_eth</i>	Enter interface type and number in module/slot format
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <iftun_desc> description [ __readonly__ TABLE_interface <interface> <state> <protocol>
<desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

show interface <ifid_desc1> description [__readonly__ TABLE_interface <interface_vfc> [<vfc_desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_desc1</i>	Enter interface type and number in module/slot format
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface_vfc</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vfc_desc</i>	(Optional) Description

Command Mode

- /exec

show interface detail-counters

show interface detail-counters

Syntax Description

show	Show running system information
interface	Show interface status and information
detail-counters	Show interface counters in detail

Command Mode

- /exec

show interface fcoe

```
show interface <ifeth_fcoe> fcoe [ __readonly__ TABLE_interface <interface> [ <state> ] [ <vfc> ] [ <vfc_bound> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fcoe</i>	Enter interface type and number in module/slot format
fcoe	Show interface fcoe information
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>state</i>	(Optional) State of interface
<i>vfc</i>	(Optional) VFC
<i>vfc_bound</i>	(Optional) Binding information

Command Mode

- /exec

show interface 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
<i>if_id</i>	Enter interface type and number in module/slot format
fex-conf	Show interface fex information
__readonly__	(Optional) Read Only
<i>fbr_if</i>	(Optional) Interface name
<i>rchas_id</i>	(Optional) Configured fex number
<i>rmod_no</i>	(Optional) Configured fex module number

Command Mode

- /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
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_fex_fabric</i>	(Optional) Discovered fex fabric ports
<i>fex_no</i>	(Optional) Configured chassis number
<i>fbr_port</i>	(Optional) Interface name
<i>fex_uplink</i>	(Optional) Remote Link id
<i>chas_vendor</i>	(Optional) Chassis Vendor
<i>fex_model</i>	(Optional) Chassis Model
<i>chas_ser</i>	(Optional) Chassis serial Number
<i>mod_vendor</i>	(Optional) Module Vendor
<i>mod_model</i>	(Optional) Module Model
<i>fex_ser</i>	(Optional) Module serial Number
<i>mod_no</i>	(Optional) Module Number(Left/Right module)
<i>mgmt_inst</i>	(Optional) Management instance
<i>fbr_state</i>	(Optional) Fabric port state

Command Mode

- /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
<i>if_id</i>	Enter interface type and number in module/slot format
fex-intf	Show FEX ports pinned to fabric port
__readonly__	(Optional) Read Only
TABLE_fabric_if	(Optional) Fabric interface satellite ports
<i>fbr_if</i>	(Optional) Fabric Interface name
TABLE_sat_if	(Optional) Satellite ports
<i>sat_if</i>	(Optional) FEX Interface name

Command Mode

- /exec

show interface flowcontrol

```
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
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface flowcontrol

```
show interface <ifeth_fl_ctrl> flowcontrol [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fl_ctrl</i>	Enter interface type and number in module/slot format
flowcontrol	Show interface flowcontrol information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface flowcontrol 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
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface hardware-mappings

show interface hardware-mappings

Syntax Description

show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces

Command Mode

- /exec

show interface mac-address

show interface mac-address [*__readonly__* *TABLE_interface* <interface> <address> <bia_address>]

Syntax Description

show	Show running system information
interface	Show interface status and information
mac-address	Show interface MAC address
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In MAC Address

Command Mode

- /exec

show interface mac-address

show interface <ifid_macaddr> mac-address [__readonly__ TABLE_interface <interface> <address>]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_macaddr</i>	Enter interface type and number in module/slot format
mac-address	Show interface MAC address
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>address</i>	(Optional) MAC Address

Command Mode

- /exec

show interface priority-flow-control

```
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ] [ __readonly__ [
TABLE_pfc_interface <if_name_str> <admin> <oper> <cos-list> <rx-stats> <tx-stats> <rx_ppp_cos_0>
<tx_ppp_cos_0> <ppp_cos_1> <ppp_cos_2> <ppp_cos_3> <ppp_cos_4> <ppp_cos_5> <ppp_cos_6>
<ppp_cos_7> ] ]
```

Syntax Description

show	commands to display
interface	Interface for displaying pfc information
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
priority-flow-control	Show interface PFC information
detail	(Optional) Show detailed per priority Tx/Rx PFC statistics
__readonly__	(Optional)
<i>if_name_str</i>	(Optional) interface name
TABLE_pfc_interface	(Optional) PFC information of an interface
<i>admin</i>	(Optional) PFC admin
<i>oper</i>	(Optional) PFC oper
<i>cos-list</i>	(Optional) List of class-of-service values

Command Mode

- /exec

show interface private-vlan mapping

```
show interface [ <if> ] private-vlan mapping [ __readonly__ <output-filtered> <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__	(Optional) Read Only
<i>if</i>	(Optional) Vlan Interface number
<i>output-filtered</i>	(Optional) the output is filtered for specified ifs
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>secondary-vlan</i>	(Optional) Secondary Vlan
<i>pvlan-type</i>	(Optional)

Command Mode

- /exec

show interface pruning

```
show interface pruning [ __readonly__ <start> { TABLE_interface_pruning1 <if_index1> <rx_join> } {
TABLE_interface_pruning2 <if_index2> <cur_join> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
pruning	Show interface trunk VTP pruning information
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
TABLE_interface_pruning1	(Optional) Interface pruning information in table format
<i>if_index1</i>	(Optional) Trunk
<i>rx_join</i>	(Optional) Vlans pruned for lack of request by neighbor
TABLE_interface_pruning2	(Optional) Interface pruning information in table format
<i>if_index2</i>	(Optional) Trunk
<i>cur_join</i>	(Optional) Vlan traffic requested of neighbor

Command Mode

- /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__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>snmp-ifindex</i>	(Optional) If Index in Hex
<i>ifindex-dec</i>	(Optional) If Index in Decimal

Command Mode

- /exec

show interface status

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
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
status	Interface status
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>admin-state</i>	(Optional)
<i>line-proto</i>	(Optional)

Command Mode

- /exec

show interface status

```
show interface status [ down | inactive | module <module> | up | auto-column ] [ __readonly__ TABLE_interface
<interface> [ <name> ] <state> <vlan> <duplex> <speed> [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
down	(Optional) Show interface down state
inactive	(Optional) Show interface inactive state
auto-column	(Optional) Show interface status auto-column adjusted
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
up	(Optional) Show interface up state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <ifid_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] [ <duplex> ] [ <speed> ] [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_status</i>	Enter interface type and number in module/slot format
status	Show interface line status
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <ifeth_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] <duplex> <speed> [ <type> ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifeth_status</i>	Enter interface type and number in module/slot format
<code>status</code>	Show interface line status
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <iftun_status> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name>
<state> <state_rsn> <state_rsn_desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_status</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> <admin_state> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state

Command Mode

- /exec

show interface status err-disabled

```
show interface status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ] <state> [
<state_rsn> ] [ <state_rsn_desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-disabled

```
show interface <ifeth_errdis> status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ]
<state> [ <state_rsn> ] [ <state_rsn_desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
<i>ifeth_errdis</i>	Enter interface type and number in module/slot format
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-vlans

```
show interface status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] { TABLE_vlan
<err_vlan> <err_vlan_status> <err_vlan_syserr> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-vlans	Show errored vlans
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>TABLE_vlan</i>	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface status err-vlans

```
show interface <ifeth_errvlans> status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] [
{ TABLE_vlan [ <err_vlan> ] [ <err_vlan_status> ] [ <err_vlan_syserr> } ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_errvlans</i>	Enter interface type and number in module/slot format
status	Show interface line status
err-vlans	Show errored vlans
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>TABLE_vlan</i>	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface status 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
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface switchport

```
show interface switchport [ __readonly__ ] TABLE_interface <interface> <switchport> [ <switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_unicast> ] [ <switchport_block_multicast> ] [ <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
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association
<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping

<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info

Command Mode

- /exec

show interface switchport

```
show interface <ifeth_swch> switchport [ __readonly__ TABLE_interface <interface> <switchport> [
<switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_unicast> ] [
<switchport_block_multicast> ] [ <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
<i>ifeth_swch</i>	Enter interface type and number in module/slot format
switchport	Show interface switchport information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association

<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping
<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info

Command Mode

- /exec

show interface transceiver

```
show interface transceiver [ calibrations | details | inventory ] [ __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_alm_hi> ] [
<temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ] [ <volt_alm_hi> ] [
<volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ] [ <current_alm_hi> ] [
<current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [ <tx_pwr_flag> ] [
<tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ] [ <rx_pwr> ] [
<rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [ <rx_pwr_warn_lo> ] [
<xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [ <snr_warn_hi> ] [
<snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi> ] [ <isi_warn_lo> ] [
<pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [ <pam_warn_lo> ] [
<pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo> ] [
<pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag> ] [
<pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi> ] [
<pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alm_hi> ] [
<uncorrect_ber_max_alm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alm_hi> ] [
<uncorrect_ber_cur_alm_lo> ] [ <uncorrect_ber_cur_warn_hi> ] [ <uncorrect_ber_cur_warn_lo> ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information

<i>details</i>	(Optional) Show interface transceiver detail information
<i>inventory</i>	(Optional) Show interface transceiver inventory
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_ <i>interface</i>	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber
<i>len_cu</i>	(Optional) Link length supported for copper
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier

<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current

<i>current_flag</i>	(Optional) Current Flag
<i>current_alm_hi</i>	(Optional) Current Alarm High
<i>current_alm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high

<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alm_hi</i>	(Optional) PAM alarm high
<i>pam_alm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alm_lo</i>	(Optional) Laser Frequency Alarm Low

<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high

<i>pre_fec_ber_cur_alm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
sprom	(Optional) Show interface transceiver sprom information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber in Km
<i>len_9_2</i>	(Optional) Link length supported for 9/125um fiber in m
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber in m
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber in m
<i>len_cu</i>	(Optional) Link length supported for copper sfp in m
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number

<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High

<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alm_hi</i>	(Optional) Current Alarm High
<i>current_alm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high

<i>isi_alrm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alrm_hi</i>	(Optional) PAM alarm high
<i>pam_alrm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alrm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alrm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alrm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alrm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alrm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alrm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag

<i>laser_freq_alrm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alrm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alrm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alrm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alrm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alrm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alrm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alrm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alrm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alrm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur

<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver

show interface <ifid_trns> transceiver [calibrations | details]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trns</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information

Command Mode

- /exec

show interface transceiver fex-fabric

```
show interface transceiver fex-fabric [ calibrations | details ] [ __readonly__ TABLE_interface <interface> [
<sf> ] [ <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_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag>
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag>
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
[ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [
<snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi>
] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [
<pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo>
] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag>
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi>
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alm_hi> ] [
<uncorrect_ber_max_alm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alm_hi> ] [
<uncorrect_ber_cur_alm_lo> ] [ <uncorrect_ber_cur_warn_hi> ] [ <uncorrect_ber_cur_warn_lo> ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information

<i>details</i>	(Optional) Show interface transceiver detail information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_50</i>	(Optional) Link length supported for 50/125mm fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125mm fiber
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
<i>lane_number</i>	(Optional) Lane number

<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alarm_hi</i>	(Optional) Current Alarm High
<i>current_alarm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alarm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alarm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alarm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alarm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High

<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alm_hi</i>	(Optional) PAM alarm high
<i>pam_alm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alm_hi</i>	(Optional) Uncorrected BER alarm high

<i>uncorrect_ber_alm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag

<i>pre_fec_ber_min_alm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max

<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alrm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alrm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alrm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alrm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver fex-fabric

```
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
<i>ifeth_trans</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_50</i>	(Optional) Link length supported for 50/125mm fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125mm fiber
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope

<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0

Command Mode

- /exec

show interface trunk

```
show interface trunk [ module <module> | vlan <vlan_id> | fex <fex_num> ] [ __readonly__ { TABLE_interface
<interface> <native> <status> <portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } {
TABLE_errored_vlans <interface> <erroredvlans> } { TABLE_stp_forward <interface> <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	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
fex	(Optional) Limit display to interfaces on a FEX
<i>fex_num</i>	(Optional) Enter FEX number
vlan	(Optional) Show per vlan information for trunk
<i>vlan_id</i>	(Optional) Enter vlan range
<i>interface</i>	(Optional) Interface index
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
TABLE_allowed_vlans	(Optional) show allowed vlans
TABLE_errored_vlans	(Optional) show errored vlans
TABLE_stp_forward	(Optional) show STP forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs
<i>status</i>	(Optional) Status
<i>native</i>	(Optional) Native VLAN
<i>portchannel</i>	(Optional) Port Channel
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
<i>erroredvlans</i>	(Optional) Errored VLANs
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs

<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
<i>vtp pruning_vlans</i>	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk

```
show interface <ifeth_trnk> trunk [ __readonly__ { TABLE_interface <interface> <native> <status>
<portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } { TABLE_errored_vlans <interface>
<erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> } { TABLE_fabricpath_vlans <interface>
<fabricpath_vlans> } { TABLE_vtp_pruning <interface> <vtppruning_vlans> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
TABLE_allowed_vlans	(Optional) show allowed vlans
TABLE_errored_vlans	(Optional) show errored vlans
TABLE_stp_forward	(Optional) show STP forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs
<i>status</i>	(Optional) Status
<i>native</i>	(Optional) Native VLAN
<i>portchannel</i>	(Optional) Port Channel
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
<i>erroredvlans</i>	(Optional) Errored VLANs
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
<i>vtppruning_vlans</i>	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk vsan

```
show interface trunk vsan [ <vsan_id> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
<i>vsan_id</i>	(Optional) Enter vsan range

Command Mode

- /exec

show interface trunk vsan

```
show interface <ifid_trnk> trunk vsan [ <vsan_id> ] [ __readonly__ TABLE_interface <interface> [
<port_state> ] [ <oper_state> ] [ <bundle_if_index> ] [ <vsan> ] [ <oper_port_state> ] [ <oper_state_reason>
] [ <fcid1> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
<i>vsan_id</i>	(Optional) Enter vsan range
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>port_state</i>	(Optional) port state
<i>oper_state</i>	(Optional) oper state cause
<i>bundle_if_index</i>	(Optional) bundle if-index
<i>vsan</i>	(Optional) vsan
<i>oper_port_state</i>	(Optional) oper port state
<i>oper_state_reason</i>	(Optional) oper state reason
<i>fcid1</i>	(Optional) fcid

Command Mode

- /exec

show interface trunk vsan

show interface <ifid_trnk> trunk vsan [<vsan_id>]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
<i>vsan_id</i>	(Optional) Enter vsan range

Command Mode

- /exec

show interface untagged-cos

```
show interface untagged-cos [ module <mod_num> ] [ __readonly__ <interface> <ucos-value> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
untagged-cos	Show interface untagged CoS information
module	(Optional) Limit display to interfaces on module
<i>mod_num</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface index
<i>ucos-value</i>	(Optional) COS value

Command Mode

- /exec

show interface vlan mapping

```
show interface <ifindex> vlan mapping [ __readonly__ <if-index-id> { TABLE_vlan_xlt <orig-vlan-id>
<inner-vlan-id> <xlt-vlan-id> } <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifindex</i>	Enter interface type and number in module/slot format
vlan	Show VLAN information
mapping	VLAN translation mapping
<i>__readonly__</i>	(Optional) Read Only
TABLE_vlan_xlt	(Optional) Vlan translation table
<i>if-index-id</i>	(Optional) Interface index id
<i>orig-vlan-id</i>	(Optional) Original Vlan Id
<i>inner-vlan-id</i>	(Optional) Inner Vlan Id
<i>xlt-vlan-id</i>	(Optional) Translated Vlan Id
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show inventory

```
show inventory [ chassis | fans | power_supply | module [ <module> ] | <s0> [ <santa-cruz-range> ] | all ] [
__readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum> ]
```

Syntax Description

show	Show running system information
inventory	system inventory information
chassis	(Optional) system inventory chassis information
fans	(Optional) system inventory fan information
power_supply	(Optional) system inventory power supply information
module	(Optional) system inventory module information
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) please enter the module number
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
all	(Optional) system and transceiver inventory information
<i>__readonly__</i>	(Optional)
TABLE_inv	(Optional) Inventory table
<i>name</i>	(Optional) Name of inventory
<i>desc</i>	(Optional) Description of inventory
<i>productid</i>	(Optional) Product ID
<i>vendorid</i>	(Optional) Vendor ID
<i>serialnum</i>	(Optional) Serial Number

Command Mode

- /exec

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>i</i>	Enter FEX identifier
<i>__readonly__</i>	(Optional)
<i>TABLE_inv</i>	(Optional) Inventory table
<i>name</i>	(Optional) Name of inventory
<i>desc</i>	(Optional) Description of inventory
<i>productid</i>	(Optional) Product ID
<i>vendorid</i>	(Optional) Vendor ID
<i>serialnum</i>	(Optional) Serial Number

Command Mode

- /exec

<i>global_punt_pkt_cnt</i>	(Optional)
<i>global_punt_byte_cnt</i>	(Optional)
<i>global_glean_pkt_cnt</i>	(Optional)
<i>global_glean_byte_cnt</i>	(Optional)
<i>glean_pkt_cnt</i>	(Optional)
<i>glean_byte_cnt</i>	(Optional)
<i>normal_pkt_cnt</i>	(Optional)
<i>normal_byte_cnt</i>	(Optional)
<i>last_updated</i>	(Optional)
<i>count-static</i>	(Optional)
<i>count-dynamic</i>	(Optional)
<i>count-others</i>	(Optional)
<i>count-throttle</i>	(Optional)
<i>count-total</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
<i>count</i>	(Optional)
TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>ip-addr-out</i>	(Optional)
<i>mac</i>	(Optional)
<i>pref</i>	(Optional)
<i>owner</i>	(Optional)
<i>pkt-count</i>	(Optional)
<i>byte-count</i>	(Optional)
<i>is-best</i>	(Optional)
<i>is-thrtld</i>	(Optional)

Command Mode

- /exec

show ip amt relay

```
show { ip | ipv6 } amt relay [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<tut> <ra> <nds> <ldn> <nts> <lrn> <lra> <lq> <uc> <rc4> <rc6> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
relay	Display status information about the AMT Relay
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>tut</i>	(Optional)
<i>ra</i>	(Optional)
<i>vrf</i>	(Optional)
<i>nds</i>	(Optional)
<i>ldn</i>	(Optional)
<i>nts</i>	(Optional)
<i>lrn</i>	(Optional)
<i>lra</i>	(Optional)
<i>lq</i>	(Optional)
<i>uc</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)

Command Mode

- /exec

show ip amt route

```
show { ip | ipv6 } amt route [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<rc4> <rc6> { TABLE_route <addrs> <if> <nbr> <gwa> <gw_exp> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
route	Display multicast routes learned via AMT
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)
TABLE_route	(Optional)
<i>addrs</i>	(Optional)
<i>if</i>	(Optional)
<i>nbr</i>	(Optional)
<i>gwa</i>	(Optional)
<i>gw_exp</i>	(Optional)

Command Mode

- /exec

show ip amt tunnel

```
show ip amt tunnel [ <address4> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc4> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

Syntax Description

show	Show running system information
amt	AMT show commands
ip	Display IP information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>address4</i>	(Optional) IP address of tunnel endpoint
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc4</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)

<i>group</i>	(Optional)
<i>rexp</i>	(Optional)

Command Mode

- /exec

show ip arp

```
show ip arp [ [ [ <ip-address> | [ sync-entries | fhrp-non-active-learn ] [ detail ] | static | summary | [ summary
] <interface> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ TABLE_vrf <vrf-name-out>
[ <cnt-resolved> ] [ <cnt-incomplete> ] [ <cnt-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	(Optional) Display ARP adjacency summary
detail	(Optional) Display detailed information
sync-entries	(Optional) Display ARP table learnt only due to arp table sync
fhrp-non-active-learn	(Optional) Display ARP table learnt only due to request for non-active FHRP address
<i>interface</i>	(Optional) ARP interface
<i>ip-address</i>	(Optional) IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
static	(Optional) Display Static ARP entries
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>cnt-resolved</i>	(Optional)
<i>cnt-incomplete</i>	(Optional)
<i>cnt-thrtld-incomplete</i>	(Optional)
<i>cnt-unknown</i>	(Optional)
<i>cnt-total</i>	(Optional)

TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>ip-addr-out</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>mac</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>unknown</i>	(Optional)
<i>incomplete</i>	(Optional)

Command Mode

- /exec

show ip arp anycast topo-info

show ip arp anycast topo-info [<topo-id>]

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
anycast	anycast feature info
topo-info	Per topology specific information
<i>topo-id</i>	(Optional) Topology ID (VLAN-ID or BD-ID)

Command Mode

- /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	(Optional) Display only interfaces that are administratively enabled
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ip arp client

```
show ip arp client [ __readonly__ { <arp-clients> } [ TABLE_arp_client_list { <arp-cli-uuid> <l2-client-type>
<client-flg> <mts-addr-sap> <cli-msg-cnt> [ <l2-cli-func-name> ] [ <l2-cli-dbg-func> ] [
<l2-cli-dbg-un-init-func> ] } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
client	Display ARP Client table
<i>__readonly__</i>	(Optional)
<i>arp-clients</i>	(Optional)
TABLE_arp_client_list	(Optional)
<i>arp-cli-uuid</i>	(Optional)
<i>l2-client-type</i>	(Optional)
<i>client-flg</i>	(Optional)
<i>mts-addr-sap</i>	(Optional)
<i>cli-msg-cnt</i>	(Optional)
<i>l2-cli-func-name</i>	(Optional)
<i>l2-cli-dbg-func</i>	(Optional)
<i>l2-cli-dbg-un-init-func</i>	(Optional)

Command Mode

- /exec

show ip arp inspection

```
show ip arp inspection [ __readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid> TABLE_entry
<active_vlan_id> <is_insp_enabled> <oper_state> <acl_name> <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
<i>__readonly__</i>	(Optional)
<i>src_mac_valid</i>	(Optional)
<i>dest_mac_valid</i>	(Optional)
<i>ip_addr_valid</i>	(Optional)
TABLE_entry	(Optional)
<i>active_vlan_id</i>	(Optional)
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>is_static_acl</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

Command Mode

- /exec

show ip arp inspection interfaces

```
show ip arp inspection interfaces [ <intf1> ] [ __readonly__ 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
interfaces	Trust status of all interfaces
<i>intf1</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional)
<i>intf_header</i>	(Optional)
<i>intf2</i>	(Optional)
<i>trust_state</i>	(Optional)

Command Mode

- /exec

show ip arp inspection log

```
show ip arp inspection log [ __readonly__ <log_buff_size> <log_rate_entries> <log_rate_interval> <log_frame> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
log	Log Buffer
<i>__readonly__</i>	(Optional)
<i>log_buff_size</i>	(Optional)
<i>log_rate_entries</i>	(Optional)
<i>log_rate_interval</i>	(Optional)
<i>log_frame</i>	(Optional)

Command Mode

- /exec

show ip arp inspection statistics

```
show ip arp inspection statistics [ vlan <vlan-range> ] [ __readonly__ TABLE_stats <vlanid> <req_fwded>
<res_fwded> <req_dropped> <res_dropped> <dhcp_drops> [ <acl_drops> ] <dhcp_permits> [ <acl_permits>
] <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
statistics	Status of ARP Inspection
vlan	(Optional) Selected vlan range
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
TABLE_stats	(Optional)
<i>vlanid</i>	(Optional)

Command Mode

- /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
vlan	Selected vlan range
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
<i>src_mac_valid</i>	(Optional)
<i>dest_mac_valid</i>	(Optional)
<i>ip_addr_valid</i>	(Optional)
TABLE_vlan	(Optional)
<i>active_vlan_id</i>	(Optional)
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>is_static_acl</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

Command Mode

- /exec

show ip arp off-list

```
show ip arp off-list [ { vlan | bdi } <vlan-id> ] [ __readonly__ [ <offlist-vlan-id> <vlan-adj-cnt> ] [
<arp-sync-adj-cnt> ] { TABLE_arp_vlan_list <adj-vlan-id> <off-adj-ip-addr> <time-stamp> <arp-mac-addr>
<off-adj-flags> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
off-list	Show adjacencies in off-list arp database
vlan	(Optional) Vlan id
bdi	(Optional) Bridge Domain Name/Id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>offlist-vlan-id</i>	(Optional)
<i>vlan-adj-cnt</i>	(Optional)
<i>arp-sync-adj-cnt</i>	(Optional)
TABLE_arp_vlan_list	(Optional)
<i>adj-vlan-id</i>	(Optional)
<i>off-adj-ip-addr</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>arp-mac-addr</i>	(Optional)
<i>off-adj-flags</i>	(Optional)

Command Mode

- /exec

show ip arp open-flow error-statistics

show ip arp open-flow error-statistics

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
open-flow	open flow
error-statistics	IR mode specific adjacency statistics

Command Mode

- /exec

show ip arp snmp ptree

```
show ip arp snmp ptree { 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 ptree
ptree	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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs

Command Mode

- /exec

show ip arp statistics

```
show ip arp statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf-name-out1> TABLE_stat <tx-total> <tx-req> <tx-reply> <tx-req-l2>
<tx-reply-l2> <tx-grat> <tx-tunnel> <tx-drop> <tx-srvrport> <tx-fbrport> <tx-fixup-core> <tx-fixup-server>
<tx-fixup-rarp> <tx-anycast-glean> <tx-mbuf-fail> <tx-ctxt-not-crted> <tx-bad-ctxt-id> <tx-invalid-ifindex>
<tx-invalid-sip> <tx-invalid-dip> <tx-own-ip> <tx-unattached-ip> <tx-adj-create-fail> <tx-null-sip>
<tx-null-smac> <tx-client-enq-fail> <tx-dest-unreachable> <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-enhanced-proxy> <rx-enhanced-proxy-anycast>
<rx-enhanced-proxy-l2port-track> <rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if>
<bad-len> <invalid-prot> <invalid-hrd-type> <invalid-ctxt> <ctxt-not-crted> <invalid-l2> <invalid-l3>
<invalid-sip> <our-sip> <arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip> <non-local-dst>
<non-active-fhrp> <invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted> <stdby-fhrp-vip>
<grat-prxy-en> <arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel_fail> <adds> <dels> <timeouts> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
statistics	Display ARP statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs
interface-all	(Optional) Display ARP statistics for all interface
<i>interface</i>	(Optional) ARP interface
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out1</i>	(Optional)
TABLE_stat	(Optional)
<i>tx-total</i>	(Optional)
<i>tx-req</i>	(Optional)
<i>tx-reply</i>	(Optional)
<i>tx-req-l2</i>	(Optional)

<i>tx-reply-l2</i>	(Optional)
<i>tx-grat</i>	(Optional)
<i>tx-tunnel</i>	(Optional)
<i>tx-drop</i>	(Optional)
<i>tx-srvrport</i>	(Optional)
<i>tx-fbrcport</i>	(Optional)
<i>tx-fixup-core</i>	(Optional)
<i>tx-fixup-server</i>	(Optional)
<i>tx-fixup-rarp</i>	(Optional)
<i>tx-anycast-glean</i>	(Optional)
<i>tx-mbuf-fail</i>	(Optional)
<i>tx-ctxt-not-crtd</i>	(Optional)
<i>tx-bad-ctxt-id</i>	(Optional)
<i>tx-invalid-ifindex</i>	(Optional)
<i>tx-invalid-sip</i>	(Optional)
<i>tx-invalid-dip</i>	(Optional)
<i>tx-own-ip</i>	(Optional)
<i>tx-unattached-ip</i>	(Optional)
<i>tx-adj-create-fail</i>	(Optional)
<i>tx-null-sip</i>	(Optional)
<i>tx-null-smac</i>	(Optional)
<i>tx-client-enq-fail</i>	(Optional)
<i>tx-dest-unreachable</i>	(Optional)
<i>tx-invalid-local-proxy</i>	(Optional)
<i>tx-invalid-proxy</i>	(Optional)
<i>tx-vip-not-active</i>	(Optional)
<i>tx-multiple-vip-for-proxy</i>	(Optional)
<i>rx-total</i>	(Optional)
<i>rx-req</i>	(Optional)

<i>rx-reply</i>	(Optional)
<i>rx-req-l2</i>	(Optional)
<i>rx-reply-l2</i>	(Optional)
<i>rx-proxy</i>	(Optional)
<i>rx-local-proxy</i>	(Optional)
<i>rx-enhanced-proxy</i>	(Optional)
<i>rx-enhanced-proxy-anycast</i>	(Optional)
<i>rx-enhanced-proxy-l2port-track</i>	(Optional)
<i>rx-tunnel</i>	(Optional)
<i>rx-fastpath</i>	(Optional)
<i>rx-snoop</i>	(Optional)
<i>rx-drop</i>	(Optional)
<i>rx-srvrport</i>	(Optional)
<i>bad-if</i>	(Optional)
<i>bad-len</i>	(Optional)
<i>invalid-prot</i>	(Optional)
<i>invalid-hrd-type</i>	(Optional)
<i>invalid-ctxt</i>	(Optional)
<i>ctxt-not-crtd</i>	(Optional)
<i>invalid-l2</i>	(Optional)
<i>invalid-l3</i>	(Optional)
<i>invalid-sip</i>	(Optional)
<i>our-sip</i>	(Optional)
<i>arp-if-no-mem</i>	(Optional)
<i>subnet-mismatch</i>	(Optional)
<i>dir-bcast</i>	(Optional)
<i>invalid-dip</i>	(Optional)
<i>non-local-dst</i>	(Optional)
<i>non-active-fhrp</i>	(Optional)

<i>invalid-smac</i>	(Optional)
<i>our-smac</i>	(Optional)
<i>not-init</i>	(Optional)
<i>l2-prxy-en</i>	(Optional)
<i>l2-port-untrusted</i>	(Optional)
<i>stdby-fhrp-vip</i>	(Optional)
<i>grat-prxy-en</i>	(Optional)
<i>arp-req-ignore</i>	(Optional)
<i>l2-intf</i>	(Optional)
<i>l2fm-query-fail</i>	(Optional)
<i>tunnel_fail</i>	(Optional)
<i>adds</i>	(Optional)
<i>dels</i>	(Optional)
<i>timeouts</i>	(Optional)

Command Mode

- /exec

show ip arp suppression-cache

```
show ip arp suppression-cache { detail [ vlan <vlan_id> ] | summary | statistics | vlan <vlan_id> | local [ vlan
<vlan_id> ] | remote [ vlan <vlan_id> ] } [ __readonly__ TABLE_arp-suppression [ TABLE_entries <ip-addr>
<age> <mac> <vlan> <physical-iod> <flag> ] [ TABLE_summary <remote-count> <synced-count>
<local-count> <total-count> ] [ TABLE_stats TABLE_suppressed <total> <requests> <gratuitous>
<requests-on-l2> <gratuitous-on-l2> TABLE_sent <total-sent> <requests-sent> <replies-sent>
<requests-on-core-sent> <replies-on-core-sent> <dropped-sent> <requests-on-l2-sent> <replies-on-l2-sent>
<requests-on-core-l2-sent> <replies-on-core-l2-sent> <dropped-l2-sent> TABLE_received <total-recv>
<requests-recv> <replies-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-recv> <dropped-recv>
<gratuitous-l2-recv> <dropped-l2-recv> <local-requests-recv> <local-replies-recv> TABLE_entrystats <adds>
<dels> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
suppression-cache	arp-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
<i>vlan_id</i>	(Optional) Vlan
<i>__readonly__</i>	(Optional)
TABLE_arp-suppression	(Optional)
TABLE_entries	(Optional)
<i>ip-addr</i>	(Optional)
<i>age</i>	(Optional)
<i>mac</i>	(Optional)
<i>vlan</i>	(Optional)
<i>physical-iod</i>	(Optional)
<i>flag</i>	(Optional)

TABLE_summary	(Optional)
<i>remote-count</i>	(Optional)
<i>synced-count</i>	(Optional)
<i>local-count</i>	(Optional)
<i>total-count</i>	(Optional)
TABLE_stats	(Optional)
TABLE_suppressed	(Optional)
<i>total</i>	(Optional)
<i>requests</i>	(Optional)
<i>requests-on-l2</i>	(Optional)
<i>gratuitous</i>	(Optional)
<i>gratuitous-on-l2</i>	(Optional)
TABLE_sent	(Optional)
<i>total-sent</i>	(Optional)
<i>requests-sent</i>	(Optional)
<i>replies-sent</i>	(Optional)
<i>requests-on-core-sent</i>	(Optional)
<i>replies-on-core-sent</i>	(Optional)
<i>dropped-sent</i>	(Optional)
<i>requests-on-l2-sent</i>	(Optional)
<i>replies-on-l2-sent</i>	(Optional)
<i>requests-on-core-l2-sent</i>	(Optional)
<i>replies-on-core-l2-sent</i>	(Optional)
<i>dropped-l2-sent</i>	(Optional)
TABLE_received	(Optional)
<i>total-recv</i>	(Optional)
<i>requests-recv</i>	(Optional)
<i>local-requests-recv</i>	(Optional)
<i>replies-recv</i>	(Optional)

<i>local-replies-recv</i>	(Optional)
<i>gratuitous-recv</i>	(Optional)
<i>dropped-recv</i>	(Optional)
<i>requests-on-l2-recv</i>	(Optional)
<i>replies-on-l2-recv</i>	(Optional)
<i>gratuitous-l2-recv</i>	(Optional)
<i>dropped-l2-recv</i>	(Optional)
TABLE_entrystats	(Optional)
<i>adds</i>	(Optional)
<i>dels</i>	(Optional)

Command Mode

- /exec

show ip arp suppression topo-info

show ip arp suppression topo-info [<topo-id>]

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
suppression	ARP-suppression based event
topo-info	E-VPN identifier
<i>topo-id</i>	(Optional) E-VPN identifier (VLAN-ID or BD-ID)

Command Mode

- /exec

show ip arp tunnel-statistics

```
show ip arp tunnel-statistics [ __readonly__ { TABLE_ip_arp_tunnel_stat [ <arp-tun-pkt-rcv-cnt> ] [
<arp-tun-pkt-rcv-ing-vpc> ] [ <arp-tun-pkt-rcv-ing-gpc> ] [ <arp-tun-pkt-rcv-ing-orp-vpc> ] [
<arp-tun-pkt-rcv-ing-orp-vpc-pl> ] [ <arp-tun-pkt-snd-cnt> ] [ <arp-tun-pkt-snd-snoop-cnt> ] [
<arp-tun-pkt-snd-non-local-vip-cnt> ] [ <arp-tun-pkt-snd-peer-gate-cnt> ] [ <arp-tun-pkt-snd-ing-vpc> ] [
<arp-tun-pkt-snd-ing-gpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc-pl> ] [
<arp-tun-pkt-rcv-drp-cnt> ] [ <arp-tun-pkt-snd-drp-cnt> ] [ <arp-tun-pkt-snd-drp-snd-fail-cnt> ] [
<arp-tun-pkt-rcv-drp-ver-cnt> ] [ <arp-tun-pkt-rcv-drp-pl-cnt> ] [ <arp-tun-pkt-rcv-drp-ing-non-mct> ] [
<arp-tun-pkt-rcv-drp-inv-ing-intf> ] [ <arp-tun-pkt-snd-drp-inv-ing-intf> ] [
<arp-tun-pkt-rcvdrp-inv-gpc-core-sw> ] [ <arp-tun-pkt-rcvdrp-inv-gpc-peer-sw> ] [ <arp-tun-pkt-drp-inv-mce>
] [ <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__	(Optional)
TABLE_ip_arp_tunnel_stat	(Optional) ARP Tunnel stats
<i>arp-tun-pkt-rcv-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-vpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-gpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-orp-vpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-orp-vpc-pl</i>	(Optional)
<i>arp-tun-pkt-snd-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-snoop-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-non-local-vip-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-peer-gate-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-ing-vpc</i>	(Optional)
<i>arp-tun-pkt-snd-ing-gpc</i>	(Optional)
<i>arp-tun-pkt-snd-ing-orp-vpc</i>	(Optional)
<i>arp-tun-pkt-snd-ing-orp-vpc-pl</i>	(Optional)

<i>arp-tun-pkt-rcv-drp-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-drp-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-drp-snd-fail-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-ver-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-pl-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-ing-non-mct</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-inv-ing-intf</i>	(Optional)
<i>arp-tun-pkt-snd-drp-inv-ing-intf</i>	(Optional)
<i>arp-tun-pkt-rcvdrp-inv-gpc-core-sw</i>	(Optional)
<i>arp-tun-pkt-rcvdrp-inv-gpc-peer-sw</i>	(Optional)
<i>arp-tun-pkt-drp-inv-mcec</i>	(Optional)
<i>arp-tun-pkt-im-api-fail</i>	(Optional)
<i>arp-tun-pkt-drp-ctxt-inv</i>	(Optional)
<i>arp-tun-pkt-drp-mct-dwn</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-mbuf-op-fail</i>	(Optional)
<i>arp-tun-pkt-snd-drp-mbuf-op-fail</i>	(Optional)
<i>arp-tun-pkt-snd-drp-tunnel</i>	(Optional)
<i>arp-tun-pkt-snd-drp-ce</i>	(Optional)
<i>arp-tun-pkt-snd-drp-inv-gpc</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-inv-gpc</i>	(Optional)

Command Mode

- /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 Mode

- /exec

show ip arp vpc-statistics

```
show ip arp vpc-statistics [ __readonly__ { TABLE_arp_vpc_stats [ <arp-pro-drp-pull-disable> ] [
<arp-pro-drp-push-msg-disable> ] [ <arp-pro-ign-snd-pull-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-vipaddr> ] [ <arp-drp-adj-fail> ] [ <arp-drp-subnet-mismatch> ] [
<arp-drp-adj-exist> ] [ <arp-dont-drp-ip-not-enable> ] [ <arp-drp-inval-phy-iod> ] [ <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
<i>__readonly__</i>	(Optional)
<i>TABLE_arp_vpc_stats</i>	(Optional) Arp Vpc statistics
<i>arp-pro-drp-pull-disable</i>	(Optional)
<i>arp-pro-drp-push-msg-disable</i>	(Optional)
<i>arp-pro-ign-snd-pull-disabe</i>	(Optional)
<i>arp-ign-snd-push-disable</i>	(Optional)
<i>arp-drp-im-fail</i>	(Optional)
<i>arp-drp-mcecm-fail</i>	(Optional)
<i>arp-drp-invalid-pc-iod</i>	(Optional)
<i>arp-drp-pt-lookup-fail</i>	(Optional)
<i>arp-drp-resp-fail-no-mct</i>	(Optional)
<i>arp-drp-resp-fail</i>	(Optional)
<i>arp-resp-sent</i>	(Optional)
<i>arp-resp-recvd</i>	(Optional)
<i>arp-resp-recv-err</i>	(Optional)

<i>arp-rcvd-msg</i>	(Optional)
<i>arp-send-fail</i>	(Optional)
<i>arp-cfs-rel-dlvry-fail</i>	(Optional)
<i>arp-cfs-rel-dnvry-suc</i>	(Optional)
<i>arp-drp-pt-add-fail</i>	(Optional)
<i>arp-drp-no-mem</i>	(Optional)
<i>arp-drp-tmr-cre-fail</i>	(Optional)
<i>arp-drp-add-adj-fail</i>	(Optional)
<i>arp-off-drp-pt-lookup-fail</i>	(Optional)
<i>arp-dont-drp-vlan-mismat</i>	(Optional)
<i>arp-drp-svi-invalid</i>	(Optional)
<i>arp-dont-drop-sv-down</i>	(Optional)
<i>arp-drp-mct-down</i>	(Optional)
<i>arp-drp-ctxt-invalid</i>	(Optional)
<i>arp-drp-vrf-invalid</i>	(Optional)
<i>arp-drp-l3addr-invalid</i>	(Optional)
<i>arp-drp-l3addr-sanity-fail</i>	(Optional)
<i>arp-drp-mac-sanity-fail</i>	(Optional)
<i>arp-own-rtr-mac</i>	(Optional)
<i>arp-drp-own-ipaddr</i>	(Optional)
<i>arp-drp-own-vipadd</i>	(Optional)
<i>arp-drp-adj-fail</i>	(Optional)
<i>arp-drp-subnet-mismatch</i>	(Optional)
<i>arp-drp-adj-exist</i>	(Optional)
<i>arp-dont-drp-ip-not-enable</i>	(Optional)
<i>arp-drp-inval-phy-iod</i>	(Optional)
<i>arp-drp-total-cnt</i>	(Optional)
<i>arp-dont-drop-total-cnt</i>	(Optional)
<i>arp-add-adj</i>	(Optional)

<i>arp-del-adj</i>	(Optional)
<i>arp-adj-already-exist</i>	(Optional)

Command Mode

- /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
<i>aspl-name</i>	(Optional) AS path access list name
<i>aspl-cfg-name</i>	(Optional) Known as-path access-list name
<i>__readonly__</i>	(Optional)
TABLE_aspl	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip bgp

```
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 } ] } { rib-install | rib-uninstall | rib-pending } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	Display BGP information for all address families
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Mode

- /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	(Optional) Display only interfaces that are administratively enabled
interface	Display ip related interface information
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ip client

```
show ip client [ <client-name> ] [ __readonly__ [ TABLE_ip_clnt [ TABLE_clnt { <clnt-name> <clnt-uuid> <clnt-pid> <clnt-ext-pid> [ <clnt-proto> ] <clnt-ind> <clnt-cntxt-id> <clnt-mts-sap> <clnt-flg> <clnt-msg-succ-cnt> <clnt-msg-fail-cnt> [ <clnt-recv-fn-name> <clnt-recv-fn> ] } ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
client	Display clients registered with the IP process
<i>client-name</i>	(Optional) Display information for a single IP client
<i>__readonly__</i>	(Optional)
<i>TABLE_ip_clnt</i>	(Optional)
<i>TABLE_clnt</i>	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-uuid</i>	(Optional)
<i>clnt-pid</i>	(Optional)
<i>clnt-ext-pid</i>	(Optional)
<i>clnt-proto</i>	(Optional)
<i>clnt-ind</i>	(Optional)
<i>clnt-cntxt-id</i>	(Optional)
<i>clnt-mts-sap</i>	(Optional)
<i>clnt-flg</i>	(Optional)
<i>clnt-msg-succ-cnt</i>	(Optional)
<i>clnt-msg-fail-cnt</i>	(Optional)
<i>clnt-recv-fn-name</i>	(Optional)
<i>clnt-recv-fn</i>	(Optional)

Command Mode

- /exec

show ip community-list

```
show ip community-list [ <cl_name> ] [ __readonly__ TABLE_cl <name> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
community-list	List community-list
<i>cl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
<i>TABLE_cl</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip debug

show ip debug

Syntax Description

show	Show running system information
ip	Display IP information
debug	Display IP debug-filter configuration

Command Mode

- /exec

show ip dhcp global statistics

```
show ip dhcp global statistics [ __readonly__ <pkts_processed> <pkts_recvd_through_cfsoe> <pkts_fwded>
<pkts_cfsoe_fwded> <pkts_dropped> <pkts_dropped_from_untrusted_ports>
<pkts_dropped_src_mac_chk_fail> <pkts_dropped_opt82_ins_fail> <pkts_dropped_unknown_op_intf>
<pkts_dropped_unknown_pkt> <pkts_dropped_no_trust_inf> <pkts_dropped_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
<i>__readonly__</i>	(Optional) Read only
<i>pkts_processed</i>	(Optional)
<i>pkts_recvd_through_cfsoe</i>	(Optional)
<i>pkts_fwded</i>	(Optional)
<i>pkts_cfsoe_fwded</i>	(Optional)
<i>pkts_dropped</i>	(Optional)
<i>pkts_dropped_from_untrusted_ports</i>	(Optional)
<i>pkts_dropped_src_mac_chk_fail</i>	(Optional)
<i>pkts_dropped_opt82_ins_fail</i>	(Optional)
<i>pkts_dropped_unknown_op_intf</i>	(Optional)
<i>pkts_dropped_unknown_pkt</i>	(Optional)
<i>pkts_dropped_no_trust_inf</i>	(Optional)
<i>pkts_dropped_relay_disable</i>	(Optional)
<i>pkts_dropped_no_binding_entry</i>	(Optional)
<i>pkts_dropped_interface_error</i>	(Optional)
<i>pkts_dropped_max_hops_exceeded</i>	(Optional)

Command Mode

- /exec

show ip dhcp relay

```
show ip dhcp relay [ __readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize>
<relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable> <global_smart-relay_enable>
<global_relay_trusted_enable> <relay_trusted_port_enable> <smart_relay_intf_hdr> <subnet_bcast_intf_hdr>
<trusted_port_intf_hdr> <relay_address_hdr> TABLE_intf <intf> <relay_address> <vrf_name>
<smart_relay_enabled_intf> <subnet_bcast_enabled_intf> <trusted_port_enabled_intf> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
relay	DHCP relay
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional)
<i>relay_opt82_enable</i>	(Optional)
<i>relay_opt82_customize</i>	(Optional)
<i>relay_subopt_VPN_enable</i>	(Optional)
<i>relay_subopt_type_cisco_enable</i>	(Optional)
<i>global_smart-relay_enable</i>	(Optional)
<i>global_relay_trusted_enable</i>	(Optional)
<i>relay_trusted_port_enable</i>	(Optional)
<i>relay_address_hdr</i>	(Optional)
<i>smart_relay_intf_hdr</i>	(Optional)
<i>subnet_bcast_intf_hdr</i>	(Optional)
<i>trusted_port_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>intf</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) vrf name
<i>smart_relay_enabled_intf</i>	(Optional) smart-relay enabled interfaces
<i>subnet_bcast_enabled_intf</i>	(Optional) subnet_bcast enabled interfaces

<i>trusted_port_enabled_intfs</i>	(Optional) trusted_port enabled interfaces
-----------------------------------	--

Command Mode

- /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	(Optional) DHCP relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
TABLE_intf	(Optional)
<i>intf_header</i>	(Optional)
<i>intf2</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) VRF name

Command Mode

- /exec

show ip dhcp relay information trusted-sources

show ip dhcp relay information trusted-sources [*__readonly__* <header> TABLE_intf <intf>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	DHCP Relay
information	Relay information
trusted-sources	Relay Trusted Sources
<i>__readonly__</i>	(Optional) Read only
TABLE_intf	(Optional)
<i>header</i>	(Optional)
<i>intf</i>	(Optional) interface name

Command Mode

- /exec

show ip dhcp relay statistics

```
show ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name>
] } ] [ __readonly__ <msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_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>
<drop_untrusted_relay_intf> <drop_mct_drop> <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	(Optional) input interface
<i>intf</i>	(Optional) interface
serverip	(Optional) Helper address
<i>ip-addr-val</i>	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
<i>vrf-name</i>	(Optional) VRF name
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>msg_type_str</i>	(Optional)
<i>tx_pkts</i>	(Optional)
<i>rx_pkts</i>	(Optional)
<i>drops</i>	(Optional)
<i>msg_type_str_total</i>	(Optional)
<i>total_tx_pkts</i>	(Optional)

<i>total_rx_pkts</i>	(Optional)
<i>total_drops</i>	(Optional)
<i>line</i>	(Optional)
<i>l3_fwd_hdr</i>	(Optional)
<i>l3_fwd_tx_pkts</i>	(Optional)
<i>l3_fwd_rx_pkts</i>	(Optional)
<i>l3_fwd_drops</i>	(Optional)
<i>server_consolidated_hdr</i>	(Optional)
<i>server_total_request</i>	(Optional)
<i>server_total_response</i>	(Optional)
<i>server_req_hdr</i>	(Optional)
<i>server_resp_hdr</i>	(Optional)
<i>server_helper_addr</i>	(Optional)
<i>server_vrf</i>	(Optional)
<i>server_discover</i>	(Optional)
<i>server_request</i>	(Optional)
<i>server_decline</i>	(Optional)
<i>server_release</i>	(Optional)
<i>server_inform</i>	(Optional)
<i>server_offer</i>	(Optional)
<i>server_ack</i>	(Optional)
<i>server_nack</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_opt82_insert_fail</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_unknown</i>	(Optional)
<i>drop_malformed</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_intf_err</i>	(Optional)

<i>drop_max_hops</i>	(Optional)
<i>drop_tx_sock_err</i>	(Optional)
<i>drop_tx_fail_client_intf</i>	(Optional)
<i>drop_l3_unknown_op_intf</i>	(Optional)
<i>drop_invalid_msg_type</i>	(Optional)
<i>drop_validation_fail</i>	(Optional)
<i>drop_untrusted_relay_intf</i>	(Optional)
<i>drop_mct_drop</i>	(Optional)
<i>non_dhcp_hdr</i>	(Optional)
<i>non_dhcp_tx_pkts</i>	(Optional)
<i>non_dhcp_rx_pkts</i>	(Optional)
<i>non_dhcp_drops</i>	(Optional)
<i>footer</i>	(Optional)

Command Mode

- /exec

show ip dhcp snooping

```
show ip dhcp snooping [ __readonly__ <snoop_service_enable> <snoop_gbl_enable> <snoop_vlan_enable>
<snoop_oper_vlan_enable> <snoop_opt82_enable> <snoop_hwaddr_verify_enable> <snoop_hdr>
TABLE_intf_entry <intf_entry_if_index> <intf_entry_trust_dhcp> <intf_entry_pkt_limit> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
<i>__readonly__</i>	(Optional) Read only
<i>snoop_service_enable</i>	(Optional)
<i>snoop_gbl_enable</i>	(Optional)
<i>snoop_vlan_enable</i>	(Optional)
<i>snoop_oper_vlan_enable</i>	(Optional)
<i>snoop_opt82_enable</i>	(Optional)
<i>snoop_hwaddr_verify_enable</i>	(Optional)
<i>snoop_hdr</i>	(Optional)
TABLE_intf_entry	(Optional)
<i>intf_entry_if_index</i>	(Optional)
<i>intf_entry_trust_dhcp</i>	(Optional)
<i>intf_entry_pkt_limit</i>	(Optional)

Command Mode

- /exec

show ip dhcp snooping binding

show ip dhcp snooping binding [<ip> | <mac> | vlan <vlan-range> |

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
binding	DHCP snooping bindings
<i>ip</i>	(Optional) Binding entry IP address
<i>mac</i>	(Optional) Binding entry MAC address
vlan	(Optional) Binding entry VLAN
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec

show ip dhcp snooping statistics

show ip dhcp snooping statistics [{ vlan <vlan-id> interface <intf> } |

Syntax Description

<i>vlan-id</i>	(Optional)]
show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
snooping	DHCP snooping
statistics	Statistics related to DHCP
vlan	(Optional) VLAN
interface	(Optional) input interface
<i>intf</i>	(Optional) interface

Command Mode

- /exec

show ip dhcp status

show ip dhcp status [*__readonly__* <*current_cli_op*> <*last_cli_op*> <*last_cli_stat*>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
status	Current CLI command and execution status of the last command
<i>__readonly__</i>	(Optional) Read only
<i>current_cli_op</i>	(Optional)
<i>last_cli_op</i>	(Optional)
<i>last_cli_stat</i>	(Optional)

Command Mode

- /exec

show ip dns source-interface

```
show ip dns source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipdnsvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipdnsvrf	(Optional) source interface of dns given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip dns source-interface vrf all

```
show ip dns source-interface vrf all [ __readonly__ [ { TABLE_ipdns <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipdns	(Optional) source interface of dns
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

zero-successors	(Optional) Show only zero successor entries
detail-links	(Optional) Show all links in topology table with details
all-links	(Optional) Show all links in topology table
__readonly__	(Optional)
TABLE_asn	(Optional)
asn	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
router_id	(Optional)
head_serial	(Optional)
next_serial	(Optional)
route_count	(Optional)
replies_pending	(Optional)
dummies	(Optional)
eigrp_name	(Optional)
num_if	(Optional)
num_neighbors	(Optional)
num_active_if	(Optional)
TABLE_quiescent_if	(Optional)
ifname	(Optional)
TABLE_ent	(Optional)
ip_prefix	(Optional)
active	(Optional)
num_successors	(Optional)
feasible_distance	(Optional)
tag	(Optional)
send_flag	(Optional)
xmit_serno	(Optional)
xmit_refcount	(Optional)

<i>xmit_anchored</i>	(Optional)
<i>outstd_replies</i>	(Optional)
<i>query_origin</i>	(Optional)
<i>retry_count</i>	(Optional)
<i>act_min_time</i>	(Optional)
<i>act_max_time</i>	(Optional)
<i>act_avg_time</i>	(Optional)
<i>act_count</i>	(Optional)
<i>peers_sia_stuck</i>	(Optional)
TABLE_succ	(Optional)
<i>s_nexthop</i>	(Optional)
<i>s_origin</i>	(Optional)
<i>s_metric</i>	(Optional)
<i>s_succ_metric</i>	(Optional)
<i>s_bandwidth</i>	(Optional)
<i>s_delay</i>	(Optional)
<i>s_reliability</i>	(Optional)
<i>s_load</i>	(Optional)
<i>s_min_mtu</i>	(Optional)
<i>s_hop_count</i>	(Optional)
<i>s_int_tag</i>	(Optional)
<i>s_reply_status</i>	(Optional)
<i>s_sia_status</i>	(Optional)
<i>s_external</i>	(Optional)
<i>s_ext_routerid</i>	(Optional)
<i>s_ext_asn</i>	(Optional)
<i>s_ext_proto</i>	(Optional)
<i>s_ext_metric</i>	(Optional)
<i>s_ext_admin_tag</i>	(Optional)

<i>s_exterior_flag</i>	(Optional)
<i>s_send_flag</i>	(Optional)
<i>s_send_flag_hex</i>	(Optional)
<i>s_ifname</i>	(Optional)
<i>s_xmit_serno</i>	(Optional)
<i>s_xmit_anchored</i>	(Optional)
TABLE_reply_status	(Optional)
<i>rs_ipaddr</i>	(Optional)
<i>rs_ifname</i>	(Optional)
TABLE_sia_status	(Optional)
<i>ss_ipaddr</i>	(Optional)
<i>ss_ifname</i>	(Optional)
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /exec

show ip 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_rib_scale> <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	(Optional) Show detailed EIGRP process stats
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
<u>__readonly__</u>	(Optional)
TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>router_id</i>	(Optional)
<i>shutdown</i>	(Optional)
<i>authen_md5</i>	(Optional)
<i>authen_keychain</i>	(Optional)
<i>metric_weight_k1</i>	(Optional)
<i>metric_weight_k2</i>	(Optional)

<i>metric_weight_k3</i>	(Optional)
<i>metric_weight_k4</i>	(Optional)
<i>metric_weight_k5</i>	(Optional)
<i>metric_weight_k6</i>	(Optional)
<i>metric_ribsscale</i>	(Optional)
<i>metric_delayacc</i>	(Optional)
<i>metric_version</i>	(Optional)
<i>eigrp_proto</i>	(Optional)
<i>multicast_group</i>	(Optional)
<i>int_distance</i>	(Optional)
<i>ext_distance</i>	(Optional)
<i>max_paths</i>	(Optional)
<i>num_interfaces</i>	(Optional)
<i>num_lo_interfaces</i>	(Optional)
<i>num_pass_interfaces</i>	(Optional)
<i>num_peers</i>	(Optional)
TABLE_redist	(Optional)
<i>redist_srcproto</i>	(Optional)
<i>redist_routemap</i>	(Optional)
<i>graceful_restart</i>	(Optional)
<i>stub_configured</i>	(Optional)
<i>stub_option_connected</i>	(Optional)
<i>stub_option_summary</i>	(Optional)
<i>stub_option_redist</i>	(Optional)
<i>stub_option_leak_map</i>	(Optional)
<i>stub_option_receive_only</i>	(Optional)

Command Mode

- /exec

show ip eigrp accounting

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] accounting [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_asn <asn> 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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
accounting	IP-EIGRP Accounting
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>router_id</i>	(Optional)
<i>total_prefix</i>	(Optional)
<i>redist_state</i>	(Optional)
<i>redist_count</i>	(Optional)
<i>restart_count</i>	(Optional)
<i>acct_timer</i>	(Optional)
TABLE_peer	(Optional)
<i>p_ipaddr</i>	(Optional)

<i>p_state</i>	(Optional)
<i>p_ifname</i>	(Optional)
<i>p_prefix_count</i>	(Optional)
<i>p_restart_count</i>	(Optional)
<i>p_acct_timer</i>	(Optional)

Command Mode

- /exec

show ip eigrp event-history

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ internal ] event-history { errors | msgs | statistics | fsm | packet | rib
| cli }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Event History of EIGRP
errors	Error log of EIGRP
msgs	Message log of EIGRP
statistics	State and size of the buffers
fsm	FSM log of EIGRP
packet	Packet log of EIGRP
rib	RIB log of EIGRP
cli	EIGRP CLI related events

Command Mode

- /exec

show ip eigrp event-history bfd

```
show ip eigrp [ <eigrp-ptag> ] [ internal ] event-history bfd
```

Syntax Description

show	Show running system information
ip	Display IP information
eigrp	Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Event History of EIGRP
bfd	Show bfd log of EIGRP

Command Mode

- /exec

show ip 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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
event	IP-EIGRP Events
<i>start-num</i>	(Optional) Starting event number
<i>end-num</i>	(Optional) Ending event number
type	(Optional) Show Events being logged

Command Mode

- /exec

show ip eigrp interfaces

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] interfaces [ detail ] [ <interface> ] [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf <vrf> [ TABLE_if <ifname>
<peer_count> <xmitq_unrel> <xmitq_rel> <mean_srtt> <send_intvl_unrel> <send_intvl_rel>
<mcast_flow_delay> <pending_routes> [ <hello_intvl> <holdtime_intvl> <next_xmit_serno>
<packetize_pending> <mcasts_sent_unrel> <mcasts_sent_rel> <ucasts_sent_unrel> <ucasts_sent_rel>
<mcast_exceptions> <cr_packets> <acks_suppressed> <retrans_sent> <out_of_seq_rcvd> <stub_interface>
<nexthop_self> <auth_mode_md5> <auth_key_chain> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
interfaces	IP-EIGRP interfaces
detail	(Optional) Show detailed interface information
<i>interface</i>	(Optional) Interface
brief	(Optional) Show summary information only
__readonly__	(Optional)
TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_if	(Optional)
<i>ifname</i>	(Optional)
<i>peer_count</i>	(Optional)
<i>xmitq_unrel</i>	(Optional)

<i>xmitq_rel</i>	(Optional)
<i>mean_srtt</i>	(Optional)
<i>send_intvl_unrel</i>	(Optional)
<i>send_intvl_rel</i>	(Optional)
<i>mcast_flow_delay</i>	(Optional)
<i>pending_routes</i>	(Optional)
<i>hello_intvl</i>	(Optional)
<i>holdtime_intvl</i>	(Optional)
<i>next_xmit_serno</i>	(Optional)
<i>packetize_pending</i>	(Optional)
<i>mcasts_sent_unrel</i>	(Optional)
<i>mcasts_sent_rel</i>	(Optional)
<i>ucasts_sent_unrel</i>	(Optional)
<i>ucasts_sent_rel</i>	(Optional)
<i>mcast_exceptions</i>	(Optional)
<i>cr_packets</i>	(Optional)
<i>acks_suppressed</i>	(Optional)
<i>retrans_sent</i>	(Optional)
<i>out_of_seq_rev</i>	(Optional)
<i>stub_interface</i>	(Optional)
<i>nexthop_self</i>	(Optional)
<i>auth_mode_md5</i>	(Optional)
<i>auth_key_chain</i>	(Optional)

Command Mode

- /exec

show ip 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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
metric	Compute composite metric from vector metric
<i>bw</i>	Bandwidth in Kbits per second
<i>delay</i>	Delay metric
<i>rel</i>	(Optional) Reliability metric where 255 is 100% reliable
<i>load</i>	(Optional) Effective bandwidth metric (Loading) where 255 is 100% loaded

Command Mode

- /exec

show ip eigrp neighbors

```
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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
neighbors	IP-EIGRP neighbors
detail	(Optional) Show detailed peer information
state	(Optional) Show detailed peer and state information
<i>interface</i>	(Optional) Interface
<i>address</i>	(Optional) IP-EIGRP neighbor address
__readonly__	(Optional)

TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_peer	(Optional)
<i>peer_handle</i>	(Optional)
<i>peer_ipaddr</i>	(Optional)
<i>peer_ifname</i>	(Optional)
<i>peer_holdtime</i>	(Optional)
<i>peer_uptime</i>	(Optional)
<i>peer_srtt</i>	(Optional)
<i>peer_rto</i>	(Optional)
<i>peer_xmitq_count</i>	(Optional)
<i>peer_last_seqno</i>	(Optional)
<i>peer_static</i>	(Optional)
<i>peer_nsf_restart_time</i>	(Optional)
<i>peer_last_startup_serno</i>	(Optional)
<i>peer_ios_major_ver</i>	(Optional)
<i>peer_ios_minor_ver</i>	(Optional)
<i>peer_eigrp_major_rev</i>	(Optional)
<i>peer_eigrp_minor_rev</i>	(Optional)
<i>peer_retrans_count</i>	(Optional)
<i>peer_retry_count</i>	(Optional)
<i>peer_wait_for_init</i>	(Optional)
<i>peer_wait_for_init_ack</i>	(Optional)
<i>peer_reinit_start_time</i>	(Optional)
<i>peer_prefix_count</i>	(Optional)
<i>peer_info_stubbed</i>	(Optional)
<i>peer_info_receive_only</i>	(Optional)

<i>peer_info_allow_connected</i>	(Optional)
<i>peer_info_allow_statics</i>	(Optional)
<i>peer_info_allow_summaries</i>	(Optional)
<i>peer_info_allow_redist</i>	(Optional)
<i>peer_info_allow_leaking</i>	(Optional)
<i>peer_state_cr_mode</i>	(Optional)
<i>peer_state_need_init</i>	(Optional)
<i>peer_state_need_init_ack</i>	(Optional)
<i>peer_state_going_down</i>	(Optional)
<i>peer_state_coming_up</i>	(Optional)
<i>peer_state_peer_deleted</i>	(Optional)
<i>peer_state_nsf_in_progress</i>	(Optional)
<i>peer_state_need_eot</i>	(Optional)
<i>peer_state_use_nsf_startup_mode</i>	(Optional)
<i>peer_state_await_nsf_convergence</i>	(Optional)
<i>peer_state_initiated_gr</i>	(Optional)
<i>peer_state_cr_sequence</i>	(Optional)
<i>peer_state_rcv_probe_sequence</i>	(Optional)
<i>peer_state_send_probe_sequence</i>	(Optional)
<i>peer_suppress_queries</i>	(Optional)
TABLE_xmitq_pkts	(Optional)
<i>pkt_qtype</i>	(Optional)
<i>pkt_index</i>	(Optional)
<i>pkt_opcode</i>	(Optional)
<i>pkt_ack_seqno</i>	(Optional)
<i>pkt_start_seqno</i>	(Optional)
<i>pkt_end_seqno</i>	(Optional)
<i>pkt_len</i>	(Optional)
<i>pkt_time_sent</i>	(Optional)

<i>pkt_init_flag</i>	(Optional)
<i>pkt_sequenced</i>	(Optional)
TABLE_suspended_peer	(Optional)
<i>susp_peer_ipaddr</i>	(Optional)
<i>susp_peer_ifname</i>	(Optional)
<i>susp_peer_restart_reqd</i>	(Optional)
<i>susp_peer_restart_time</i>	(Optional)
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	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)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes
__readonly__	(Optional)

TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_rmap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip 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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
sia-event	IP-EIGRP SIA event
<i>start-num</i>	(Optional) Starting event number
<i>end-num</i>	(Optional) Ending event number

Command Mode

- /exec

show ip 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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
sia-statistics	IP-EIGRP SIA Statistics
<i>peer</i>	(Optional) Peer ID to display information about

Command Mode

- /exec

show ip 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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
timers	IP-EIGRP Timers

Command Mode

- /exec

show ip eigrp traffic

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> <hellos_sent> <hellos_rcvd> <updates_sent> <updates_rcvd>
<queries_sent> <queries_rcvd> <replies_sent> <replies_rcvd> <acks_sent> <acks_rcvd> <max_inqueue_depth>
<inqueue_drops> <sia_queries_sent> <sia_queries_rcvd> <sia_replies_sent> <sia_replies_rcvd> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
traffic	IP-EIGRP Traffic Statistics
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>hellos_sent</i>	(Optional)
<i>hellos_rcvd</i>	(Optional)
<i>updates_sent</i>	(Optional)
<i>updates_rcvd</i>	(Optional)
<i>queries_sent</i>	(Optional)
<i>queries_rcvd</i>	(Optional)
<i>replies_sent</i>	(Optional)
<i>replies_rcvd</i>	(Optional)

<i>acks_sent</i>	(Optional)
<i>acks_rcvd</i>	(Optional)
<i>max_inqueue_depth</i>	(Optional)
<i>inqueue_drops</i>	(Optional)
<i>sia_queries_sent</i>	(Optional)
<i>sia_queries_rcvd</i>	(Optional)
<i>sia_replies_sent</i>	(Optional)
<i>sia_replies_rcvd</i>	(Optional)

Command Mode

- /exec

show ip extcommunity-list

```
show ip extcommunity-list [ <extcl_name> ] [ __readonly__ TABLE_extcl <name> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
extcommunity-list	List extcommunity-list
<i>extcl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
TABLE_extcl	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip fib adjacency

```
show ip fib adjacency [ <aif> ] [ <anh> ] [ module <module> ] [ __readonly__ <adj-count> <nexthop>
<rewinfo> <interface> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
adjacency	display adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>adj-count</i>	(Optional) total adj count
<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface

Command Mode

- /exec

show ip fib distribution

show ip fib distribution [pauz | rezum]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution information
pauz	(Optional) start black-holing routes
rezum	(Optional) stop black-holing routes

Command Mode

- /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__	(Optional)

Command Mode

- /exec

show ip fib distribution clients

show ip fib distribution clients [__readonly__ <id><pid><name><shms><shme><shmn>]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
clients	unicast client information
__readonly__	(Optional)

Command Mode

- /exec

show ip fib distribution mroute

```
show ip fib distribution mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <id> ] [ __readonly__
<table_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> <pkctcnt> ]
```

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
mroute	MFDM IP multicast routing table
<i>group</i>	(Optional) IPv4 Multicast Group Address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
<i>source</i>	(Optional) IPv4 Source Address
table	(Optional) Specify Multicast Routing Table
<i>id</i>	(Optional) Multicast Routing Table Identifier
<i>__readonly__</i>	(Optional)
<i>table_name</i>	(Optional) Table name
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifname</i>	(Optional) RPF Interface ifName
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>refcount</i>	(Optional) Reference Count
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>oif_count</i>	(Optional) Number of OIFs

<i>oif_name</i>	(Optional) OIF Name
<i>oif_ifindex</i>	(Optional) OIF ifIndex
<i>bytecnt</i>	(Optional) Current Byte counter
<i>pktcnt</i>	(Optional) Current Packet counter

Command Mode

- /exec

show ip fib distribution multicast

```
show ip fib distribution multicast [ messages ] [ __readonly__ <fibstate> <slot> <accepting_routes>
<num_accepting_routes> ]
```

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	(Optional) Outstanding Message Information
<i>__readonly__</i>	(Optional)
<i>fibstate</i>	(Optional) IP Multicast FIB process state
<i>slot</i>	(Optional) Slot
<i>accepting_routes</i>	(Optional) Indicates whether FIB is accepting routes
<i>num_accepting_routes</i>	(Optional) Number of fibs accepting routes

Command Mode

- /exec

show ip fib distribution 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
<i>index</i>	(Optional) Outgoing Interface List index
<i>__readonly__</i>	(Optional)
<i>platform_index</i>	(Optional) Platform index
<i>ref_count</i>	(Optional) Reference count
<i>num_oif</i>	(Optional) Number of outgoing interfaces
<i>oif</i>	(Optional) OIF name

Command Mode

- /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__	(Optional)

Command Mode

- /exec

show ip fib interfaces

show ip fib interfaces [module <module>] [__readonly__ <intf> <v4adjcnt> <v6adjcnt> <rpfmode>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
interfaces	show fib interface info
__readonly__	(Optional)
<i>intf</i>	(Optional) interface name
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>v4adjcnt</i>	(Optional) count of v4 adjacencies
<i>v6adjcnt</i>	(Optional) count of v6 adjacencies
<i>rpfmode</i>	(Optional) uRPF mode

Command Mode

- /exec

show ip fib mroute

```
show ip fib mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ] [
__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif>
<rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count>
<refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
<i>source</i>	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
<i>table-id</i>	(Optional) table-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count

<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

Command Mode

- /exec

show ip fib mroute

```
show ip fib mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ] [
__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif>
<rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count>
<refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
<i>source</i>	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
<i>table-id</i>	(Optional) table-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count

<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

Command Mode

- /exec

show ip fib mroute txlist

show ip fib mroute txlist [module <module>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	display IP mcast routing table
txlist	display routes in the txlist
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <px> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tableid</i>	(Optional) table identifier
<i>prefix-count</i>	(Optional) total number of prefix in VRF
<i>px</i>	(Optional) ipv4 prefix
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route-count</i>	(Optional) total number of routes in VRF
<i>path-count</i>	(Optional) total number of paths in VRF
<i>mask-length</i>	(Optional) length of mask
<i>routes-per-mask</i>	(Optional)

Command Mode

- /exec

show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <px> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

<i>drop</i>	(Optional) display routes via drop adjacency
<i>glean</i>	(Optional) display routes via glean adjacency
<i>punt</i>	(Optional) display routes via punt adjacency
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tableid</i>	(Optional) table identifier
<i>prefix-count</i>	(Optional) total number of prefix in VRF
<i>pfx</i>	(Optional) ipv4 prefix
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route-count</i>	(Optional) total number of routes in VRF
<i>path-count</i>	(Optional) total number of paths in VRF
<i>mask-length</i>	(Optional) length of mask
<i>routes-per-mask</i>	(Optional)

Command Mode

- /exec

show ip fib route recovered

show ip fib route recovered

Syntax Description

show	
ip	ipv4
fib	display fib information
route	display IP routing table
recovered	log of routes recovered after TCAM free condition

Command Mode

- /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 Mode

- /exec

show ip ftp source-interface

```
show ip ftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrft
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrft	(Optional) source interface of ftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ftp source-interface vrf all

```
show ip ftp source-interface vrf all [ __readonly__ [ { TABLE_ipftp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipftp	(Optional) source interface of ftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip http source-interface

```
show ip http source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_iphttpvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iphttpvrf	(Optional) source interface of http given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip http source-interface vrf all

```
show ip http source-interface vrf all [ __readonly__ [ { TABLE_iphttp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iphttp	(Optional) source interface of http
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip igmp event-history

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

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
internal	(Optional) Commands for internal use
event-history	Show various event logs of IGMP
errors	Show error logs of IGMP
msgs	Show various message logs of IGMP
<i>igmp-event-hist-buf-name</i>	Show various logs of IGMP
statistics	Show state and size of buffer

Command Mode

- /exec

show ip igmp groups

```
show ip igmp { groups | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <interface> ] [
summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ summary-old ] [ __readonly__ { TABLE_vrf
<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> } } ] { TABLE_vrfsumm <vrf-summ>
<g-count> <sg-count> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
groups	Display IGMP attached group membership information
route	Display IGMP attached group membership information
<i>group</i>	(Optional) Multicast IP address of single group to display
<i>source</i>	(Optional) Source IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on single interface name
summary	(Optional) Display group summary
summary-old	(Optional) Display group summary
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>if-name</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>restart-count</i>	(Optional)
TABLE_group	(Optional)

<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>static-oif</i>	(Optional)
<i>local-group</i>	(Optional)
<i>reporter</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>translated</i>	(Optional)
TABLE_vrfsumm	(Optional)
<i>vrf-summ</i>	(Optional)
<i>g-count</i>	(Optional)
<i>sg-count</i>	(Optional)

Command Mode

- /exec

show ip igmp interface show 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> <lmrt> <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	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	Interface name of single interface to display
brief	(Optional) Display one line status per interface
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>entry-count</i>	(Optional)
TABLE_if	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>ip-sum</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>q-ver</i>	(Optional)

<i>next-query</i>	(Optional)
<i>expires</i>	(Optional)
<i>mc</i>	(Optional)
<i>ver</i>	(Optional)
<i>host-ver</i>	(Optional)
<i>qi</i>	(Optional)
<i>cqi</i>	(Optional)
<i>mrt</i>	(Optional)
<i>cmrt</i>	(Optional)
<i>sqi</i>	(Optional)
<i>csqi</i>	(Optional)
<i>sqc</i>	(Optional)
<i>lmmrt</i>	(Optional)
<i>lmqc</i>	(Optional)
<i>gt</i>	(Optional)
<i>cgt</i>	(Optional)
<i>qt</i>	(Optional)
<i>cqt</i>	(Optional)
<i>uri</i>	(Optional)
<i>rv</i>	(Optional)
<i>crv</i>	(Optional)
<i>rll</i>	(Optional)
<i>rc</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2qs</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v2ls</i>	(Optional)

<i>v2lr</i>	(Optional)
<i>v3qs</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v3rs</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v2gqdest</i>	(Optional)
<i>v3gqdest</i>	(Optional)
<i>cse</i>	(Optional)
<i>ple</i>	(Optional)
<i>lsip</i>	(Optional)
<i>scf</i>	(Optional)
<i>qnq</i>	(Optional)
<i>rvm</i>	(Optional)
<i>qvm</i>	(Optional)
<i>uit</i>	(Optional)
<i>v1gdam</i>	(Optional)
<i>v2gdam</i>	(Optional)
<i>v3dai</i>	(Optional)
<i>ra</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)
<i>il</i>	(Optional)

Command Mode

- /exec

show ip igmp local-groups

```
show ip igmp local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf> { 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
<i>interface</i>	(Optional) Display group membership on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_entry	(Optional)
<i>group-addr</i>	(Optional)
<i>source-addr</i>	(Optional)
<i>static-oif</i>	(Optional)
<i>local-group</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-reported</i>	(Optional)

Command Mode

- /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
<i>interface</i>	(Optional) Interface to display statistics for

Command Mode

- /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> <leavegroupaddress>
<rpc> <gc> <actvports> <lkupmode> <reportfloodenable> <reportfloodall> } [ TABLE_intf <if-name> ] ]
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>vdc</i>	(Optional)
<i>enabled</i>	(Optional)
<i>grepsup</i>	(Optional)
<i>gv3repsup</i>	(Optional)
<i>glinklocalgrpsup</i>	(Optional)
<i>rle</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>description</i>	(Optional) description, if any
<i>snoop-on</i>	(Optional)
<i>qa</i>	(Optional)
<i>qv</i>	(Optional)
<i>qi</i>	(Optional)
<i>qlmqi</i>	(Optional)

<i>rv</i>	(Optional)
<i>sq</i>	(Optional)
<i>sqr</i>	(Optional)
<i>eht</i>	(Optional)
<i>fl</i>	(Optional)
<i>repsup</i>	(Optional)
<i>v3repsup</i>	(Optional)
<i>vlinklocalgrpsup</i>	(Optional)
<i>leavegroupaddress</i>	(Optional)
<i>reportfloodenable</i>	(Optional)
<i>reportfloodall</i>	(Optional)
<i>rpc</i>	(Optional)
<i>gc</i>	(Optional)
<i>actyports</i>	(Optional)
<i>lkupmode</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping event-history

```
show ip igmp snooping [ internal ] event-history { statistics | <igmp-snoop-event-hist-buf-name> }
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
internal	(Optional) Display IGMP snooping internal information
event-history	Show various event logs of IGMP Snooping
statistics	Show state and size of the buffers
<i>igmp-snoop-event-hist-buf-name</i>	Show contents of event-history buffer

Command Mode

- /exec

show ip igmp snooping explicit-tracking

```
show ip igmp snooping explicit-tracking [ vlan <vlan> | bridge-domain <bidid> ] [ __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	(Optional) Display Vlan explicit-tracking database
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD explicit-tracking database
<i>bidid</i>	(Optional) Specify BD
detail	(Optional) Display detail info regarding host and vPC
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>src-addr</i>	(Optional)
<i>if-name</i>	(Optional)
<i>host-addr</i>	(Optional)
<i>uptime</i>	(Optional)
<i>last-join</i>	(Optional)
<i>expires</i>	(Optional)

Command Mode

- /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	(Optional) IGMP Snooping OTV information
groups	Display snooping information for group address
summary	(Optional) Display snooping group summary
group	(Optional) Multicast IP address of single group to display
source	(Optional) Source IP address
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
vlan	(Optional) Specify VLAN/BD
detail	(Optional) Display detailed information for the group
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
rports	(Optional)
rtrPortFlag	(Optional)
oifs	(Optional)
TABLE_port	(Optional)
if-name	(Optional)
TABLE_rtrports	(Optional)

<i>rport-if-name</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_group	(Optional)
<i>addr</i>	(Optional)
<i>ver</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>rsf</i>	(Optional)
<i>js</i>	(Optional)
<i>g-mfdm</i>	(Optional)
<i>old-host</i>	(Optional)
<i>g-vpc</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
<i>snoop-enabled</i>	(Optional)
<i>omf-enabled</i>	(Optional)
<i>group-count</i>	(Optional)
<i>s-g-count</i>	(Optional)
TABLE_static_ports	(Optional)
<i>static-if-name</i>	(Optional)
TABLE_v2_ports	(Optional)
<i>v2-if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>gq-missed</i>	(Optional)
TABLE_star_g_ports	(Optional)
<i>star-g-if-name</i>	(Optional)
<i>uptime</i>	(Optional)

<i>expires</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>srsf</i>	(Optional)
<i>s-mfdm</i>	(Optional)
<i>s-vpc</i>	(Optional)
<i>src-static</i>	(Optional)
<i>src-dynamic</i>	(Optional)
TABLE_src_static_ports	(Optional)
<i>src-static-if-name</i>	(Optional)
TABLE_src_dynamic	(Optional)
<i>dyn-if-name</i>	(Optional)
<i>src-uptime</i>	(Optional)
<i>src-expires</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping lookup-mode

```
show ip igmp snooping lookup-mode [ vlan <vlan> ] [ __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	(Optional) Display VLAN/BD information
<i>vlan</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_global	(Optional)
<i>configured</i>	(Optional)
<i>operational</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>lookup</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping mac-oif

```
show ip igmp snooping mac-oif [ vlan <vlan> ] [ 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	(Optional) Display VLAN/BD information
<i>vlan</i>	(Optional) Specify VLAN/BD
detail	(Optional) static mac oif detail, M2RIB oif info
<i>__readonly__</i>	(Optional)
<i>totaloif</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>count</i>	(Optional)
<i>mac-addr</i>	(Optional)
<i>oifs</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping mrouter

```
show ip igmp snooping mrouter [ otv ] [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__
TABLE_vlan <vlan-id> TABLE_intf <if-name> <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	(Optional) IGMP Snooping OTV information
vlan	(Optional) Display VLAN multicast router information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD multicast router information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed mrouter information
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>type</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
<i>internal</i>	(Optional)
<i>vpc</i>	(Optional)

Command Mode

- /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
<i>__readonly__</i>	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping pw vlan brief

show ip igmp snooping pw vlan brief [__readonly__ <vlan-id>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
pw	IGMP Snooping PW information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping querier

```
show ip igmp snooping querier [ vlan <vlan> | bridge-domain <bidid> ] [ 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	(Optional) Display VLAN IGMP snooping querier information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping querier information
<i>bidid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>qa</i>	(Optional)
<i>ver</i>	(Optional)
<i>expires</i>	(Optional)
<i>qv</i>	(Optional)
<i>qiod</i>	(Optional)
<i>qname</i>	(Optional)
<i>int</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping report statistics

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	(Optional) Display VLAN IGMP snooping policy statistics information
<i>vlan</i>	(Optional) Specify VLAN

Command Mode

- /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__	(Optional) Read Only
<i>cisAdminMode</i>	(Optional) mib object cisAdminMode

Command Mode

- /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
<i>__readonly__</i>	(Optional) Read Only
<i>cisAddressAliasingMode</i>	(Optional) mib object <i>cisAddressAliasingMode</i>

Command Mode

- /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__	(Optional) Read Only
<i>cisV3ProcessEnabledOperStatus</i>	(Optional) mib object cisV3ProcessEnabledOperStatus

Command Mode

- /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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanExplicitTrackingTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanExplicitTrackingEnabled</i>	(Optional) mib object cisVlanExplicitTrackingEnabled
<i>cisVlanExplicitTrackingLimit</i>	(Optional) mib object cisVlanExplicitTrackingLimit

Command Mode

- /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__	(Optional) Read Only
<i>cisFallbackTime</i>	(Optional) mib object cisFallbackTime

Command Mode

- /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
<i>__readonly__</i>	(Optional) Read Only
<i>cisFastBlockEnabled</i>	(Optional) mib object <i>cisFastBlockEnabled</i>

Command Mode

- /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
<i>__readonly__</i>	(Optional) Read Only
<i>cisFastLeaveEnabled</i>	(Optional) mib object cisFastLeaveEnabled

Command Mode

- /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	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisFilterStatsVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisFilterStatsTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisFilterStatsVlanNumber-out</i>	(Optional) mib table index cisFilterStatsVlanNumber
<i>cisFilterAccessGroupDenied</i>	(Optional) mib object cisFilterAccessGroupDenied
<i>cisFilterLimitDenied</i>	(Optional) mib object cisFilterLimitDenied
<i>cisFilterTotalLimitDenied</i>	(Optional) mib object cisFilterTotalLimitDenied
<i>cisFilterMinVersionDenied</i>	(Optional) mib object cisFilterMinVersionDenied

Command Mode

- /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	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisIfAccessGroupVlan-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisIfAccessGroupTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfAccessGroupVlan-out</i>	(Optional) mib table index cisIfAccessGroupVlan
<i>cisIfAccessGroupsChannelsAllowed</i>	(Optional) mib object cisIfAccessGroupsChannelsAllowed
<i>cisIfAccessGroupStorageType</i>	(Optional) mib object cisIfAccessGroupStorageType
<i>cisIfAccessGroupRowStatus</i>	(Optional) mib object cisIfAccessGroupRowStatus

Command Mode

- /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	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIfConfigTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfTopoChangeFloodEnabled</i>	(Optional) mib object cisIfTopoChangeFloodEnabled

Command Mode

- /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	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface Limit VLAN/BD information
<i>cisIfLimitVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisIfLimitTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfLimitVlanNumber-out</i>	(Optional) mib table index cisIfLimitVlanNumber
<i>cisIfLimitMax</i>	(Optional) mib object cisIfLimitMax
<i>cisIfLimitExcludeAccessGrp</i>	(Optional) mib object cisIfLimitExcludeAccessGrp
<i>cisIfLimitStorageType</i>	(Optional) mib object cisIfLimitStorageType
<i>cisIfLimitRowStatus</i>	(Optional) mib object cisIfLimitRowStatus

Command Mode

- /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	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_ cisIfLimitTotalTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfLimitTotalLimitMax</i>	(Optional) mib object cisIfLimitTotalLimitMax
<i>cisIfLimitTotalExcludeAccessGrp</i>	(Optional) mib object cisIfLimitTotalExcludeAccessGrp
<i>cisIfLimitTotalStorageType</i>	(Optional) mib object cisIfLimitTotalStorageType
<i>cisIfLimitTotalRowStatus</i>	(Optional) mib object cisIfLimitTotalRowStatus

Command Mode

- /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__	(Optional) Read Only
<i>cisIgmpSnoopingEnabled</i>	(Optional) mib object cisIgmpSnoopingEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib interfaceStatsTable

```
show ip igmp snooping snmp mib interfaceStatsTable [ 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
interfaceStatsTable	Display interface stats
interface	(Optional) Display interface information
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_ cisInterfaceStatsTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisTxGeneralQueries</i>	(Optional) mib object cisTxGeneralQueries
<i>cisTxGroupSpecificQueries</i>	(Optional) mib object cisTxGroupSpecificQueries
<i>cisTxReports</i>	(Optional) mib object cisTxReports
<i>cisTxLeaves</i>	(Optional) mib object cisTxLeaves
<i>cisRxGeneralQueries</i>	(Optional) mib object cisRxGeneralQueries
<i>cisRxGroupSpecificQueries</i>	(Optional) mib object cisRxGroupSpecificQueries
<i>cisRxReports</i>	(Optional) mib object cisRxReports
<i>cisRxLeaves</i>	(Optional) mib object cisRxLeaves
<i>cisRxValidPackets</i>	(Optional) mib object cisRxValidPackets
<i>cisRxInvalidPackets</i>	(Optional) mib object cisRxInvalidPackets

<i>cisRxOtherPackets</i>	(Optional) mib object cisRxOtherPackets
<i>cisRxMACGeneralQueries</i>	(Optional) mib object cisRxMACGeneralQueries
<i>cisRxTopoNotifications</i>	(Optional) mib object cisRxTopoNotifications
<i>cisV3Allows</i>	(Optional) mib object cisV3Allows
<i>cisV3Blocks</i>	(Optional) mib object cisV3Blocks
<i>cisV3IsIncluded</i>	(Optional) mib object cisV3IsIncluded
<i>cisV3IsExcluded</i>	(Optional) mib object cisV3IsExcluded
<i>cisV3ToIncluded</i>	(Optional) mib object cisV3ToIncluded
<i>cisV3ToExcluded</i>	(Optional) mib object cisV3ToExcluded

Command Mode

- /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__	(Optional) Read Only
<i>cisLastMemberQueryCount</i>	(Optional) mib object cisLastMemberQueryCount

Command Mode

- /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__	(Optional) Read Only
<i>cisLastMemberQueryInterval</i>	(Optional) mib object cisLastMemberQueryInterval

Command Mode

- /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__	(Optional) Read Only
<i>cisLeaveQueryType</i>	(Optional) mib object cisLeaveQueryType

Command Mode

- /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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMcastGroupAddressType-in</i>	(Optional) Address type
<i>cisMcastGroupAddress-in</i>	(Optional) Group address
<i>__readonly__</i>	(Optional)
<i>TABLE_cisMcastGroupTable</i>	(Optional)
<i>cisMcastGroupVlanIndex-out</i>	(Optional) mib table index cisMcastGroupVlanIndex
<i>cisMcastGroupAddressType-out</i>	(Optional) mib table index cisMcastGroupAddressType
<i>cisMcastGroupAddress-out</i>	(Optional) mib table index cisMcastGroupAddress
<i>cisMcastGroupFilterMode</i>	(Optional) mib object cisMcastGroupFilterMode
<i>cisMcastGroupIgmpVersion</i>	(Optional) mib object cisMcastGroupIgmpVersion
<i>cisMcastGroupIncludeHostCount</i>	(Optional) mib object cisMcastGroupIncludeHostCount
<i>cisMcastGroupExcludeHostCount</i>	(Optional) mib object cisMcastGroupExcludeHostCount
<i>cisMcastGroupPortList</i>	(Optional) mib object cisMcastGroupPortList

Command Mode

- /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	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisMcastRouterCfgTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterVlanIndex-out</i>	(Optional) mib table index cisMcastRouterVlanIndex
<i>cisMcastRouterType</i>	(Optional) mib object cisMcastRouterType
<i>cisMcastRouterRowStatus</i>	(Optional) mib object cisMcastRouterRowStatus

Command Mode

- /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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterConfigVlanIndex-in</i>	(Optional) Specify VLAN/BD
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface index
__readonly__	(Optional)
TABLE_cisMcastRouterConfigTable	(Optional)
<i>cisMcastRouterConfigVlanIndex-out</i>	(Optional) mib table index cisMcastRouterConfigVlanIndex
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterConfigRouterType</i>	(Optional) mib object cisMcastRouterConfigRouterType
<i>cisMcastRouterConfigStorageType</i>	(Optional) mib object cisMcastRouterConfigStorageType
<i>cisMcastRouterConfigRowStatus</i>	(Optional) mib object cisMcastRouterConfigRowStatus

Command Mode

- /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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupConfVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupConfCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupConfAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupConfAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupConfSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupConfPortRange-in</i>	(Optional) port Range
<i>__readonly__</i>	(Optional)
<i>TABLE_cisMulticastGroupConfigTable</i>	(Optional)
<i>cisMulticastGroupConfVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfVlanIndex
<i>cisMulticastGroupConfCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfCeVlanIndex
<i>cisMulticastGroupConfAddressType-out</i>	(Optional) mib table index cisMulticastGroupConfAddressType
<i>cisMulticastGroupConfAddress-out</i>	(Optional) mib table index cisMulticastGroupConfAddress
<i>cisMulticastGroupConfSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupConfSourceAddress

<i>cisMulticastGroupConfPortRange-out</i>	(Optional) mib table index cisMulticastGroupConfPortRange
<i>cisMulticastGroupConfPortList</i>	(Optional) mib object cisMulticastGroupConfPortList
<i>cisMulticastGroupConfStorageType</i>	(Optional) mib object cisMulticastGroupConfStorageType
<i>cisMulticastGroupConfRowStatus</i>	(Optional) mib object index cisMulticastGroupConfRowStatus

Command Mode

- /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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupPortRangeIndex-in</i>	(Optional) port Range Index
<i>__readonly__</i>	(Optional)
TABLE_ <i>cisMulticastGroupPortListTable</i>	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress
<i>cisMulticastGroupPortRangeIndex-out</i>	(Optional) mib table index cisMulticastGroupPortRangeIndex

<i>cisMulticastGroupPortList</i>	(Optional) mib object cisMulticastGroupPortList
----------------------------------	---

Command Mode

- /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> <cisMulticastGroupIgmVersion>
<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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) Source address
__readonly__	(Optional)
TABLE_cisMulticastGroupTable	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress
<i>cisMulticastGroupGroupType</i>	(Optional) mib object cisMulticastGroupGroupType

<i>cisMulticastGroupIgmpVersion</i>	(Optional) mib object cisMulticastGroupIgmpVersion
<i>cisMulticastGroupSourceUpTime</i>	(Optional) mib object cisMulticastGroupSourceUpTime
<i>cisMulticastGroupSourceExpires</i>	(Optional) mib object cisMulticastGroupSourceExpires
<i>cisMulticastGroupInclHostCount</i>	(Optional) mib object cisMulticastGroupInclHostCount
<i>cisMulticastGroupExclHostCount</i>	(Optional) mib object cisMulticastGroupExclHostCount

Command Mode

- /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__	(Optional) Read Only
<i>cisOperMode</i>	(Optional) mib object cisOperMode

Command Mode

- /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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisIgmpQuerierVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIgmpQuerierTable</i>	(Optional)
<i>cisIgmpQuerierVlanIndex-out</i>	(Optional) mib table index cisIgmpQuerierVlanIndex
<i>cisIgmpQuerierEnabled</i>	(Optional) mib object cisIgmpQuerierEnabled
<i>cisIgmpQuerierState</i>	(Optional) mib object cisIgmpQuerierState
<i>cisIgmpQuerierVersion</i>	(Optional) mib object cisIgmpQuerierVersion
<i>cisIgmpQuerierAddressType</i>	(Optional) mib object cisIgmpQuerierAddressType
<i>cisIgmpQuerierAddress</i>	(Optional) mib object cisIgmpQuerierAddress
<i>cisIgmpQuerierInterface</i>	(Optional) mib object cisIgmpQuerierInterface
<i>cisIgmpQuerierTcnQueryCount</i>	(Optional) mib object cisIgmpQuerierTcnQueryCount
<i>cisIgmpQuerierTcnQueryInterval</i>	(Optional) mib object cisIgmpQuerierTcnQueryInterval
<i>cisIgmpQuerierTimerExpiry</i>	(Optional) mib object cisIgmpQuerierTimerExpiry
<i>cisIgmpQuerierMaxResponseTime</i>	(Optional) mib object cisIgmpQuerierMaxResponseTime

<i>cisIgmpQuerierQueryInterval</i>	(Optional) mib object cisIgmpQuerierQueryInterval
<i>cisIgmpQuerierAdminAddressType</i>	(Optional) mib object cisIgmpQuerierAdminAddressType
<i>cisIgmpQuerierAdminAddress</i>	(Optional) mib object cisIgmpQuerierAdminAddress
<i>cisIgmpQuerierAdminVersion</i>	(Optional) mib object cisIgmpQuerierAdminVersion
<i>cisIgmpQuerierTcnQueryPending</i>	(Optional) mib object cisIgmpQuerierTcnQueryPending

Command Mode

- /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
<code>__readonly__</code>	(Optional) Read Only
<i>cisReportSuppressionEnabled</i>	(Optional) mib object cisReportSuppressionEnabled

Command Mode

- /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__	(Optional) Read Only
<i>cisRobustnessVariable</i>	(Optional) mib object cisRobustnessVariable

Command Mode

- /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__	(Optional) Read Only
<i>cisLastMemberQueryCount</i>	(Optional) mib object cisLastMemberQueryCount

Command Mode

- /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__	(Optional) Read Only
<i>cisSourceOnlyEntryAgingTime</i>	(Optional) mib object cisSourceOnlyEntryAgingTime

Command Mode

- /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__	(Optional) Read Only
<i>cisSourceOnlyLearningEnabled</i>	(Optional) mib object cisSourceOnlyLearningEnabled

Command Mode

- /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__	(Optional) Read Only
<i>cisTopoChangeFloodQueryCount</i>	(Optional) mib object cisTopoChangeFloodQueryCount

Command Mode

- /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__	(Optional) Read Only
<i>cisTimeToLiveCheckEnabled</i>	(Optional) mib object cisTimeToLiveCheckEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled

```
show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled [ __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
topoChangeQuerySolicitEnabled	Specifies whether the device running IGMP Snooping will solicit IGMP General Queries from the Querier upon receiving a TCN
__readonly__	(Optional) Read Only
<i>cisTopoChangeQuerySolicitEnabled</i>	(Optional) mib object cisTopoChangeQuerySolicitEnabled

Command Mode

- /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__	(Optional) Read Only
<i>cisV3ProcessEnabledAdminStatus</i>	(Optional) mib object cisV3ProcessEnabledAdminStatus

Command Mode

- /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__	(Optional) Read Only
<i>cisV3SnoopingSupport</i>	(Optional) mib object cisV3SnoopingSupport

Command Mode

- /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	(Optional) Display Interface access group VLAN/BD information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanFilterConfigTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib talbe index cisVlanIndex>
<i>cisVlanFilterAccessGroup</i>	(Optional) mib table index cisVlanFilterAccessGroup
<i>cisVlanFilterLimitMax</i>	(Optional) mib object cisVlanFilterLimitMax
<i>cisVlanFilterLimitExclAccessGrp</i>	(Optional) mib object cisVlanFilterLimitExclAccessGrp
<i>cisVlanFilterMinVersionAllowed</i>	(Optional) mib object cisVlanFilterMinVersionAllowed

Command Mode

- /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	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisVlanConfigTable	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanIgmpSnoopingEnabled</i>	(Optional) mib object cisVlanIgmpSnoopingEnabled
<i>cisVlanFastLeaveEnabled</i>	(Optional) mib object cisVlanFastLeaveEnabled
<i>cisVlanIgmpSnoopingOperMode</i>	(Optional) mib object cisVlanIgmpSnoopingOperMode
<i>cisVlanIgmpSnoopingLearningMode</i>	(Optional) mib object cisVlanIgmpSnoopingLearningMode
<i>cisVlanReportSuppressionEnabled</i>	(Optional) mib object cisVlanReportSuppressionEnabled
<i>cisVlanLeaveQueryInterval</i>	(Optional) mib object cisVlanLeaveQueryInterval
<i>cisVlanLastMemberQueryCount</i>	(Optional) mib object cisVlanLastMemberQueryCount
<i>cisVlanRobustnessVariable</i>	(Optional) mib object cisVlanRobustnessVariable
<i>cisVlanTimeToLiveCheckEnabled</i>	(Optional) mib object cisVlanTimeToLiveCheckEnabled
<i>cisVlanRouterAlertCheckEnabled</i>	(Optional) mib object cisVlanRouterAlertCheckEnabled

Command Mode

- /exec

show ip igmp snooping statistics

```
show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bidid> ] [ __readonly__ <pr> <inv_pkt>
<pnv> <pf> <vpcdrqs> <vpcdrqr> <vpcdrqf> <vpcdrus> <vpcdrur> <vpcdruf> <vpccfssf> <vpccfsrs>
<vpccfsrr> <vpccfsrf> <vpccfsrff> <vpccfsurls> <vpccfsurlr> <vpccfsurlf> <vpccfsrsls> <vpccfsrslr>
<vpccfsrslf> <inv_iod> <stptcnr> <imapif> <mfreqr> <mfemps> <mfdbgmps> <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> <repflooded> <repfwded> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
statistics	Display packet/error counter statistics
global	(Optional) Display global statistics
vlan	(Optional) Display VLAN statistics
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD statistics
<i>bidid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>pr</i>	(Optional)
<i>inv_pkt</i>	(Optional)
<i>pnv</i>	(Optional)
<i>pf</i>	(Optional)
<i>vpcdrqs</i>	(Optional)
<i>vpcdrqr</i>	(Optional)
<i>vpcdrqf</i>	(Optional)
<i>vpcdrus</i>	(Optional)
<i>vpcdrur</i>	(Optional)
<i>vpcdruf</i>	(Optional)
<i>vpccfssf</i>	(Optional)

<i>vpccfsrs</i>	(Optional)
<i>vpccfsrr</i>	(Optional)
<i>vpccfsrf</i>	(Optional)
<i>vpccfsrfp</i>	(Optional)
<i>vpccfsurls</i>	(Optional)
<i>vpccfsurlr</i>	(Optional)
<i>vpccfsurlf</i>	(Optional)
<i>vpccfsrls</i>	(Optional)
<i>vpccfsrlr</i>	(Optional)
<i>vpccfsrlf</i>	(Optional)
<i>inv_iod</i>	(Optional)
<i>stptcnr</i>	(Optional)
<i>imapif</i>	(Optional)
<i>mfreqr</i>	(Optional)
<i>mfcmps</i>	(Optional)
<i>mfdgcmps</i>	(Optional)
<i>bufsnt</i>	(Optional)
<i>bufackr</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>ut</i>	(Optional)
<i>vpr</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v1qr</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v2lr</i>	(Optional)

<i>phr</i>	(Optional)
<i>irr</i>	(Optional)
<i>iqr</i>	(Optional)
<i>v1rs</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v3gs</i>	(Optional)
<i>vmr</i>	(Optional)
<i>upr</i>	(Optional)
<i>qo</i>	(Optional)
<i>v2ro</i>	(Optional)
<i>v2lo</i>	(Optional)
<i>v3ro</i>	(Optional)
<i>vpsr</i>	(Optional)
<i>str</i>	(Optional)
<i>cps</i>	(Optional)
<i>cpr</i>	(Optional)
<i>cpe</i>	(Optional)
<i>mps</i>	(Optional)
<i>mpr</i>	(Optional)
<i>mpe</i>	(Optional)
<i>repflooded</i>	(Optional)
<i>repfwded</i>	(Optional)

Command Mode

- /exec

show ip igmp vrf all

```
show ip igmp vrf all [ __readonly__ { TABLE_vrfname <vrf-name> <vrf-id> <instance> <work-in-txlist> }
{ TABLE_vrfid <vrf-name-i> <vrf-id-i> <instance-i> <work-in-txlist-i> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
vrf	Display per-VRF information
all	Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrfname	(Optional)
<i>vrf-name</i>	(Optional)
<i>vrf-id</i>	(Optional)
<i>instance</i>	(Optional)
<i>work-in-txlist</i>	(Optional)
TABLE_vrfid	(Optional)
<i>vrf-name-i</i>	(Optional)
<i>vrf-id-i</i>	(Optional)
<i>instance-i</i>	(Optional)
<i>work-in-txlist-i</i>	(Optional)

Command Mode

- /exec

show ip interface

```
show ip interface { { { brief [ include-secondary ] } | [ <interface> ] | [ <ip-addr> ] } [ operational ] [ vaddr ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] } [ __readonly__ [ TABLE_vrf <vrf-name-out> ] [ TABLE_intf
<intf-name> <proto-state> <link-state> <admin-state> <ioid> <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> ] [ <stats-last-reset> ] [
<upkt-sent> ] [ <upkt-recv> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-sent> ] [
<ubyte-recv> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-sent> ] [ <mpkt-recv> ] [
<mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-sent> ] [ <mbyte-recv> ] [ <mbyte-fwd> ] [
<mbyte-orig> ] [ <mbyte-consumed> ] [ <bpkt-sent> ] [ <bpkt-recv> ] [ <bpkt-fwd> ] [ <bpkt-orig> ] [
<bpkt-consumed> ] [ <bbyte-sent> ] [ <bbyte-recv> ] [ <bbyte-fwd> ] [ <bbyte-orig> ] [ <bbyte-consumed>
] [ <lpkt-sent> ] [ <lpkt-recv> ] [ <lpkt-fwd> ] [ <lpkt-orig> ] [ <lpkt-consumed> ] [ <lbyte-sent> ] [
<lbyte-recv> ] [ <lbyte-fwd> ] [ <lbyte-orig> ] [ <lbyte-consumed> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
interface	Display IP related interface information
brief	Display summary of IP interface status and configuration
include-secondary	(Optional) Display summary of all IP addresses
operational	(Optional) Display only interfaces that are administratively enabled
<i>interface</i>	(Optional) Interface name to display
<i>ip-addr</i>	(Optional) Display interface for local IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
vaddr	(Optional) Display virtual IP addresses as well
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>prefix</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>subnet</i>	(Optional)
<i>masklen</i>	(Optional)
TABLE_secondary_address	(Optional)
<i>prefix1</i>	(Optional)
<i>subnet1</i>	(Optional)
<i>masklen1</i>	(Optional)
<i>num-addr</i>	(Optional)
<i>vaddr-client</i>	(Optional)
<i>vaddr-prefix</i>	(Optional)
<i>vaddr-subnet</i>	(Optional)
<i>vaddr-masklen</i>	(Optional)
<i>num-vaddr</i>	(Optional)
<i>unnum-intf</i>	(Optional)
<i>ip-disabled</i>	(Optional)
<i>bcast-addr</i>	(Optional)
<i>maddr</i>	(Optional)
<i>num-maddr</i>	(Optional)
<i>mtu</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>proxy-arp</i>	(Optional)
<i>lcl-proxy-arp</i>	(Optional)
<i>mrouting</i>	(Optional)

<i>icmp-redirect</i>	(Optional)
<i>dir-bcast</i>	(Optional)
<i>ip-unreach</i>	(Optional)
<i>port-unreach</i>	(Optional)
<i>urpf-mode</i>	(Optional)
<i>ip-ls-type</i>	(Optional)
<i>urpf-acl</i>	(Optional)
<i>pbr-in</i>	(Optional)
<i>pbr-out</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>upkt-sent</i>	(Optional)
<i>upkt-recv</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-sent</i>	(Optional)
<i>ubyte-recv</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-sent</i>	(Optional)
<i>mpkt-recv</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-sent</i>	(Optional)
<i>mbyte-recv</i>	(Optional)

<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>bpkt-sent</i>	(Optional)
<i>bpkt-recv</i>	(Optional)
<i>bpkt-fwd</i>	(Optional)
<i>bpkt-orig</i>	(Optional)
<i>bpkt-consumed</i>	(Optional)
<i>bbyte-sent</i>	(Optional)
<i>bbyte-recv</i>	(Optional)
<i>bbyte-fwd</i>	(Optional)
<i>bbyte-orig</i>	(Optional)
<i>bbyte-consumed</i>	(Optional)
<i>lpkt-sent</i>	(Optional)
<i>lpkt-recv</i>	(Optional)
<i>lpkt-fwd</i>	(Optional)
<i>lpkt-orig</i>	(Optional)
<i>lpkt-consumed</i>	(Optional)
<i>lbyte-sent</i>	(Optional)
<i>lbyte-recv</i>	(Optional)
<i>lbyte-fwd</i>	(Optional)
<i>lbyte-orig</i>	(Optional)
<i>lbyte-consumed</i>	(Optional)

Command Mode

- /exec

show ip lisp

```
show { ip | ipv6 } lisp [ database ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
database	(Optional) Show EID-prefixes configured for site
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp data-cache

```
show ip lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IP destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp locator-hash

```
{ { show ip lisp locator-hash { <eid-prefix> | { <source-eid> <dest-eid> } } [ vrf { <vrf-name> |
<vrf-known-name> } ] } | { show ipv6 lisp locator-hash { <eid-prefix6> | { <source-eid6> <dest-eid6> } } [
vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
locator-hash	Display source and dest locators for EID pair
<i>source-eid</i>	Source IPv4 endpoint identifier (EID)
<i>dest-eid</i>	Destination IPv4 endpoint identifier (EID)
<i>eid-prefix</i>	Display exact match for IP EID-prefix entry
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp map-cache

```
{ { show ip lisp map-cache [ <eid> | <eid-prefix> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } } | {
show ipv6 lisp map-cache [ <eid6> | <eid-prefix6> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
map-cache	Display EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid</i>	(Optional) Display mapping for IP destination EID
<i>eid-prefix</i>	(Optional) Display exact match for IP EID-prefix entry
detail	(Optional) Display entire map-cache in long format

Command Mode

- /exec

show ip lisp statistics

```
show { ip | ipv6 } lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
statistics	Display global LISP statistics
vrf	(Optional) Display statistics information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp translate-cache

```
{ show ip lisp translate-cache [ <nrEID> ] } | { show ipv6 lisp translate-cache [ <nrEID6> ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
translate-cache	Display configured translation cache
<i>nrEID</i>	(Optional) IPv4 address of inside non-routable EID
<i>nrEID6</i>	(Optional) IPv6 address of inside non-routable EID

Command Mode

- /exec

show ip lisp version-hash

```
show { ip | ipv6 } lisp version-hash { <eid-prefix> | <eid-prefix6> }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
version-hash	Display version-hash for EID-record
<i>eid-prefix</i>	Local IP EID-prefix from database-mapping command

Command Mode

- /exec

show ip load-sharing

```
show ip load-sharing [ __readonly__ { <univer-id-ran-seed> [ <l3-msg-load> ] [ <l34-msg-load> ] [
<dest-addr-load> ] [ <src-dst-ip-gre> ] [ <bad-load> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
load-sharing	Display global loadbalance info
<i>__readonly__</i>	(Optional)
<i>univer-id-ran-seed</i>	(Optional)
<i>l3-msg-load</i>	(Optional)
<i>l34-msg-load</i>	(Optional)
<i>dest-addr-load</i>	(Optional)
<i>src-dst-ip-gre</i>	(Optional)
<i>bad-load</i>	(Optional)

Command Mode

- /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	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip local policy

```
show ip local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
local	IP local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ip logging

show ip logging [hash] [__readonly__]

Syntax Description

show	Show running system information
ip	Display IP information
logging	Display IP policy logging table
hash	(Optional) logging hash data
__readonly__	(Optional)

Command Mode

- /exec

show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast | mdt } |
all } ] } } [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] | <ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	(Optional) Display one particular network from the BRIB in detail
<i>ip-mask</i>	(Optional) Mask for one particular prefix in the BRIB
<i>ip-prefix</i>	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
mdt	(Optional) Display BGP information for multicast distribution tree
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all } ] } } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | { community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <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	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>commlist-name</i>	Name of community-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip mbgp community

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] ] } community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
community	Display routes matching the BGP communities
<i>regexp-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip mbgp dampening

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } dampening { dampened-paths [ regexp <regexp-str> ] | flap-statistics | parameters | history-paths [ regexp
<regexp-str> ] } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

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

Command Mode

- /exec

show ip mbgp extcommunity

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all } ] } } extcommunity { <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	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regexp-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ip mbgp flap-statistics

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
<i>ip-prefix</i>	(Optional) Display flap statistics for one prefix
<i>ip-addr</i>	(Optional) Display flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp neighbors

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all } ] } } neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] | advertised-routes | received-routes | paths | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id> } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

- /exec

show ip mbgp nexthop-database

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

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp nexthop

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

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop	Display routes matching the nexthop
<i>ipnexthop</i>	Nexthop address
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family

Command Mode

- /exec

show ip mbgp prefix-list

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } }
prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

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

Command Mode

- /exec

show ip mbgp received-paths

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

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
private	(Optional) private

Command Mode

- /exec

show ip mroute

```
show ip mroute [ [ 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> [ <expyr_timer> ] [ <route_count> ] [ <star_g_cnt> ] [ <sg_cnt> ] [ <star_g_prfx_cnt>
] [ TABLE_route_summary [ <total-num-routes> ] [ <star-g-route> ] [ <sg-route> ] [ <star-g-prfx> ] [
<group-count> ] [ <avg> ] [ <rem> ] [ <stats-pndg> ] ] [ TABLE_summary_source [ <group_addr> ] [
<group_mask_len> ] [ <source_count> ] [ TABLE_one_sg [ <source_addr> ] [ <packets> ] [ <bytes> ] [
<aps> ] [ <pps> ] [ <rate_buf> ] [ <oifs> ] [ <software_fwd> ] [ <rpf-failed-pkts> ] [ <rpf-failed-bytes> ] ] ]
[ TABLE_one_route <mcast-addr> <pending> <bidir> <uptime> [ TABLE_mpib [ <mpib-name> ] [
<oif-count> ] [ <stale-route> ] ] [ <mdt-encap-index> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <stats-rate-buf> ]
[ <lisp-src-rloc> ] [ <route-iif> ] [ <rpf-nbr> ] <internal> [ <oif-count> ] <fabric-oif> <fabric-loser> [
<num-vpc-svi-oifs> ] [ TABLE_oif [ <oif-name> ] [ <oif-uptime> ] [ TABLE_oif_mpib [ <oif-mpib-name>
] [ <stale-oif> ] [ <omd-vpc-svi> ] ] ] <rpf> ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] ] ]
```

Syntax Description

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

flags	(Optional) Display detailed route attributes
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
expyr_timer	(Optional)
route_count	(Optional)
star_g_cnt	(Optional)
sg_cnt	(Optional)
star_g_prfx_cnt	(Optional)
TABLE_summary_source	(Optional)
group_addr	(Optional)
group_mask_len	(Optional)
source_count	(Optional)
TABLE_one_sg	(Optional)
source_addr	(Optional)
packets	(Optional)
bytes	(Optional)
aps	(Optional)
pps	(Optional)
rate_buf	(Optional)
oifs	(Optional)
software_fwd	(Optional)
rpf-failed-pkts	(Optional)
rpf-failed-bytes	(Optional)
TABLE_one_route	(Optional)
mcast-addrs	(Optional)
bidir	(Optional)
pending	(Optional)
uptime	(Optional)

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

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

Command Mode

- /exec

show 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
<i>asn</i>	(Optional) AS number
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-cnt</i>	(Optional)
TABLE_asn	(Optional)
<i>out-asn</i>	(Optional)
<i>src-cnt</i>	(Optional)
<i>grp-cnt</i>	(Optional)

Command Mode

- /exec

show ip msdp event-history

```
show ip msdp [ <asn> ] [ internal ] event-history { errors | msgs | <msdp-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
<i>asn</i>	(Optional) AS number
internal	(Optional) Commands for internal use
event-history	Show various event logs of MSDP
errors	Error logs of MSDP
msgs	Message logs of MSDP
<i>msdp-event-hist-buf-name</i>	Buffer
statistics	Buffer state

Command Mode

- /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
<i>mesh-group</i>	(Optional) Display single mesh-group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_meshgroup	(Optional)
<i>meshgroup-name</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-description</i>	(Optional)

Command Mode

- /exec

show ip msdp peer

```
show ip msdp peer [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_peer <peer-ipaddr> <out-vrf> <peer-asn> <local-ipaddr> <local-iface> <fully-configured>
<peer-description> <connection-status> <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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
peer	Display MSDP peer information
<i>peer-address</i>	(Optional) IP address of MSDP peer
__readonly__	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>local-ipaddr</i>	(Optional)
<i>local-iface</i>	(Optional)
<i>fully-configured</i>	(Optional)
<i>peer-description</i>	(Optional)
<i>connection-status</i>	(Optional)
<i>state-duration</i>	(Optional)
<i>peer-listening</i>	(Optional)
<i>peer-uptime</i>	(Optional)

<i>peer-password</i>	(Optional)
<i>peer-ki</i>	(Optional)
<i>peer-kt</i>	(Optional)
<i>peer-ri</i>	(Optional)
<i>peer-rr</i>	(Optional)
<i>sa-in-policy</i>	(Optional)
<i>sa-out-policy</i>	(Optional)
<i>sa-limit</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>last-rcvd</i>	(Optional)
<i>sa-rcvd</i>	(Optional)
<i>sa-sent</i>	(Optional)
<i>sa-req-rcvd</i>	(Optional)
<i>sa-req-sent</i>	(Optional)
<i>sa-resp-rcvd</i>	(Optional)
<i>sa-resp-sent</i>	(Optional)
<i>sa-ka-rcvd</i>	(Optional)
<i>sa-ka-sent</i>	(Optional)
<i>sa-notif-rcvd</i>	(Optional)
<i>sa-notif-sent</i>	(Optional)
<i>out-ctrl-msgs</i>	(Optional)
<i>in-ctrl-msgs</i>	(Optional)
<i>out-data-msgs</i>	(Optional)
<i>in-data-msgs</i>	(Optional)
<i>rem-port</i>	(Optional)
<i>local-port</i>	(Optional)

Command Mode

- /exec

show ip msdp policy statistics sa-policy in

```
show ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ] [ __readonly__ { TABLE_routemap <name> <action> <seq_num> [ { TABLE_cmd <command>
<match_count> <compare_count> } ] } <total_accept_count> <total_reject_count> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	MSDP global configuration commands
policy	Policy information
statistics	Policy statistics
sa-policy	Configured SA policy for MSDP peer
<i>peer-address</i>	IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip msdp rpf

```
show ip msdp rpf <rp-address> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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
<i>rp-address</i>	IP address of RP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
<i>out-rp-address</i>	(Optional)
TABLE_mesh	(Optional)
<i>peer-addr</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>is-peer-cnt-one</i>	(Optional)
<i>is-rp-peer</i>	(Optional)
<i>is-bgp-alive</i>	(Optional)
<i>is-mbgp</i>	(Optional)
<i>bgp-peer-addr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>origin-asn</i>	(Optional)

Command Mode

- /exec

show ip msdp sa

```
show ip msdp { sa-cache | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <asn> ] [ peer
<peer> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Display MSDP SA route cache
sa-cache	Display MSDP SA route cache
<i>source</i>	(Optional) Display group/source address for SA
<i>group</i>	(Optional) Display group/source address for SA
<i>asn</i>	(Optional) AS number
detail	(Optional) Display detailed information
peer	(Optional) Display MSDP SA received from single peer
<i>peer</i>	(Optional) IP address of peer for SA
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-sa-count</i>	(Optional)
TABLE_sa	(Optional)
<i>src-addr</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>peer-addr</i>	(Optional)
<i>out-asn</i>	(Optional)

<i>uptime</i>	(Optional)
<i>expire</i>	(Optional)

Command Mode

- /exec

show ip msdp sources

```
show ip msdp sources [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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 and limits
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>is-count-ge-limit</i>	(Optional)
<i>count</i>	(Optional)
<i>is-limit-valid</i>	(Optional)
<i>limit</i>	(Optional)
<i>source-prefix</i>	(Optional)
<i>violates</i>	(Optional)

Command Mode

- /exec

show ip msdp statistics

```
show ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<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> <invalid-type> <invalid-len> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
statistics	Display internal statistics
<i>peer-address</i>	(Optional) IP address of MSDP peer
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
<i>select-err</i>	(Optional)
<i>recv-sel-err</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>buffer-full</i>	(Optional)
<i>recv-buf-full</i>	(Optional)
<i>fatal-err</i>	(Optional)
<i>recv-fat-err</i>	(Optional)
<i>would-block</i>	(Optional)
<i>recv-would-block</i>	(Optional)
<i>sock-exp</i>	(Optional)
<i>invalid-type</i>	(Optional)
<i>invalid-len</i>	(Optional)

Command Mode

- /exec

show ip msdp summary

```
show ip msdp summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf> <local-asn>
<originator-id> <config-peer-count> <estb-peer-count> <shut-peer-count> { TABLE_peer <peer-address>
<peer-asn> <peer-state> <peer-uptime> <peer-last-msg> <peer-sa-rcvd> <peer-sa-limit> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary	Display MSDP peer summary
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>local-asn</i>	(Optional)
<i>originator-id</i>	(Optional)
<i>config-peer-count</i>	(Optional)
<i>estb-peer-count</i>	(Optional)
<i>shut-peer-count</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-state</i>	(Optional)
<i>peer-uptime</i>	(Optional)
<i>peer-last-msg</i>	(Optional)
<i>peer-sa-rcvd</i>	(Optional)
<i>peer-sa-limit</i>	(Optional)

Command Mode

- /exec

show ip 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
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-count</i>	(Optional)
<i>cid</i>	(Optional)
<i>tid</i>	(Optional)
<i>rc</i>	(Optional)
<i>gc</i>	(Optional)
<i>sc</i>	(Optional)
<i>star_gc</i>	(Optional)
<i>state</i>	(Optional)

Command Mode

- /exec

show ip nat max

```
show ip nat max [ __readonly__ <max_translations> <max_dyn_translations> <max_all_host>
<static_translations> <dynamic_translations> <icmp_translations> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
max	IP NAT max values
<i>__readonly__</i>	(Optional)
<i>max_translations</i>	(Optional) Max Translations
<i>max_dyn_translations</i>	(Optional) Max Dynamic Translations
<i>max_all_host</i>	(Optional) Max All Hosts
<i>static_translations</i>	(Optional) No. Static Translations
<i>dynamic_translations</i>	(Optional) No. Dynamic Translations
<i>icmp_translations</i>	(Optional) No. ICMP Translations

Command Mode

- /exec

show ip nat statistics

show ip nat statistics

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
statistics	Translation statistics

Command Mode

- /exec

show ip nat timeout

```
show ip nat timeout [ __readonly__ <tcp_timeout> <udp_timeout> <dynamic_timeout> <sampling_timeout> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
timeout	IP NAT timeout values
<i>__readonly__</i>	(Optional)
<i>tcp_timeout</i>	(Optional) TCP Timeout
<i>udp_timeout</i>	(Optional) UDP Timeout
<i>dynamic_timeout</i>	(Optional) Dynamic Timeout
<i>sampling_timeout</i>	(Optional) Sampling Timeout

Command Mode

- /exec

show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> } ] [ verbose ] [ __readonly__ {
TABLE_nat_translation [ <Protocol> ] [ <Inside_global_IP_V4_Address> ] [ <Inside_global_port> ] [
<Inside_local_IP_V4_Address> ] [ <Inside_local_port> ] [ <Outside_local_IP_V4_Address> ] [
<Outside_local_port> ] [ <Outside_global_IP_V4_Address> ] [ <Outside_global_port> } ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
translations	Translation entries
verbose	(Optional) Show extra information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional) Readonly
TABLE_nat_translation	(Optional) NAT Translation Table
<i>Protocol</i>	(Optional) Protocol
<i>Inside_global_IP_V4_Address</i>	(Optional) Inside global address
<i>Inside_global_port</i>	(Optional) Inside global port
<i>Inside_local_IP_V4_Address</i>	(Optional) Inside local address
<i>Inside_local_port</i>	(Optional) Inside local port
<i>Outside_local_IP_V4_Address</i>	(Optional) Outside local address
<i>Outside_local_port</i>	(Optional) Outside local port
<i>Outside_global_IP_V4_Address</i>	(Optional) Outside global address
<i>Outside_global_port</i>	(Optional) Outside global port

Command Mode

- /exec

show ip ospf

```
show ip ospf [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<instance_number> <cname> <rid> [ <domain_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_asbr> <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	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
instance_number	(Optional)
cname	(Optional)
rid	(Optional)

<i>domain_tag</i>	(Optional)
<i>dn_bit_ignore</i>	(Optional)
<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_notify_period</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)
TABLE_redist	(Optional)
<i>proto</i>	(Optional)

<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>asopaque_lsa_cnt</i>	(Optional)
<i>asopaque_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)
<i>area_normal</i>	(Optional)
<i>area_stub</i>	(Optional)

<i>area_nssa</i>	(Optional)
<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)
<i>no_redist</i>	(Optional)
<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)

<i>rtr_lsa_throt</i>	(Optional)
<i>TABLE_range</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)

Command Mode

- /exec

show ip ospf border-routers

```
show ip ospf [ <tag> ] border-routers [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> [ TABLE_br <type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [
<vlink_unresolved> ] [ TABLE_br_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh
[ <mbest_nh_addr> ] [ <mbest_nh_intf> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
border-routers	Border routers
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_br	(Optional)
<i>type</i>	(Optional)
<i>addr</i>	(Optional)
<i>cost</i>	(Optional)
<i>asbr</i>	(Optional)
<i>abr</i>	(Optional)
<i>area</i>	(Optional)
<i>spf_inst</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_br_ubest_nh	(Optional)

<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
TABLE_br_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)

Command Mode

- /exec

show ip ospf database

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
| nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag <tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated
| adv-router <adv-id> | adv-router-name <adv-name> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_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
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs
opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>adv-id</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name

<i>adv-name</i>	(Optional) DNS Name of the Advertising router
<i>area</i>	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
<i>ext_tag</i>	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_db2_lsa</i>	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>age</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_num_links</i>	(Optional)

Command Mode

- /exec

show ip ospf database database-summary

```
show ip ospf [ <tag> ] database database-summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_dbsum [ TABLE_dbsum_area <area> [
TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count> ] <area_lsa_total> ] [ TABLE_dbsum_all [
TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ] <non_self_lsa_total> <lsa_total> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
<i>area</i>	(Optional)
TABLE_dbsum_area_lsa	(Optional)
<i>area_lsa_name</i>	(Optional)
<i>area_lsa_count</i>	(Optional)
<i>area_lsa_total</i>	(Optional)
TABLE_dbsum_all	(Optional)

TABLE_dbsum_lsa_all	(Optional)
<i>lsa_name</i>	(Optional)
<i>lsa_count</i>	(Optional)
<i>non_self_lsa_total</i>	(Optional)
<i>lsa_total</i>	(Optional)

Command Mode

- /exec

opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>adv-id</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
detail	Display LSA in detail
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_db2_lsa	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>rtr_max_metric</i>	(Optional)
TABLE_lsdb	(Optional)
<i>age</i>	(Optional)
<i>maxage</i>	(Optional)
<i>options</i>	(Optional)
<i>options_str</i>	(Optional)
<i>wrapping</i>	(Optional)

<i>dummy</i>	(Optional)
<i>flush_pending</i>	(Optional)
<i>type</i>	(Optional)
<i>id</i>	(Optional)
<i>id_str</i>	(Optional)
<i>opaque_type</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>len</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_abr</i>	(Optional)
<i>rtr_asbr</i>	(Optional)
<i>rtr_translate</i>	(Optional)
<i>rtr_vlink_end</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
<i>rtr_links_mismatch</i>	(Optional)
TABLE_rlsa	(Optional)
<i>rtr_link_type</i>	(Optional)
<i>rtr_link_id_str</i>	(Optional)
<i>rtr_link_id</i>	(Optional)
<i>rtr_link_data_str</i>	(Optional)
<i>rtr_link_data</i>	(Optional)
<i>rtr_link_num_tos</i>	(Optional)
<i>rtr_link_metric</i>	(Optional)
TABLE_rlinktos	(Optional)
<i>rtr_link_tos_id</i>	(Optional)
<i>rtr_link_tos_metric</i>	(Optional)

<i>net_mask</i>	(Optional)
TABLE_netlsa	(Optional)
<i>net_rtr</i>	(Optional)
<i>sum_mask</i>	(Optional)
<i>sum_metric</i>	(Optional)
TABLE_sumlsa	(Optional)
<i>sum_tos_id</i>	(Optional)
<i>sum_tos_metric</i>	(Optional)
<i>nssa_mask</i>	(Optional)
<i>nssa_metric_type2</i>	(Optional)
<i>nssa_metric</i>	(Optional)
<i>nssa_fwd_addr</i>	(Optional)
<i>nssa_tag</i>	(Optional)
TABLE_nssa	(Optional)
<i>nssa_tos_metric_type2</i>	(Optional)
<i>nssa_tos_id</i>	(Optional)
<i>nssa_tos_metric</i>	(Optional)
<i>nssa_tos_fwd_addr</i>	(Optional)
<i>nssa_tos_tag</i>	(Optional)
<i>asext_mask</i>	(Optional)
<i>asext_metric_type2</i>	(Optional)
<i>asext_metric</i>	(Optional)
<i>asext_fwd_addr</i>	(Optional)
<i>asext_tag</i>	(Optional)
TABLE_asext	(Optional)
<i>asext_tos_metric_type2</i>	(Optional)
<i>asext_tos_id</i>	(Optional)
<i>asext_tos_metric</i>	(Optional)
<i>asext_tos_fwd_addr</i>	(Optional)

<i>asext_tos_tag</i>	(Optional)
<i>opaque_link_intf</i>	(Optional)
<i>opaque_unknown</i>	(Optional)
<i>opaque_data_len</i>	(Optional)
<i>opaque_data</i>	(Optional)
<i>opaque_corrupt</i>	(Optional)
<i>tlv_type</i>	(Optional)
<i>tlv_len</i>	(Optional)
<i>tlv_data</i>	(Optional)
<i>tlv_unknown</i>	(Optional)
<i>gr_interval</i>	(Optional)
<i>gr_reason</i>	(Optional)
<i>gr_addr</i>	(Optional)
<i>te_frag_id</i>	(Optional)
<i>te_rtr_id</i>	(Optional)
<i>te_link_type</i>	(Optional)
<i>te_link_id</i>	(Optional)
<i>te_link_metric</i>	(Optional)
<i>te_link_max_bw</i>	(Optional)
<i>te_link_rsv_bw</i>	(Optional)
<i>te_link_unrsv_bw</i>	(Optional)
<i>te_link_admin</i>	(Optional)
<i>te_num_links</i>	(Optional)

Command Mode

- /exec

show ip ospf event-history

show ip ospf [<tag>] [internal] event-history { errors | msgs | statistics | adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | cli }

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show various event logs of OSPF
errors	Error logs
msgs	IPC logs
statistics	Show the state and size of the buffers
adjacency	Adjacency formation logs
event	Internal event logs
ha	HA and GR logs
flooding	LSA flooding logs
lsa	LSA generation and database logs
spf	SPF calculation logs
redistribution	Redistribution logs
ldp	LDP related logs
te	MPLS TE related logs
rib	RIB related logs
hello	Hello related logs
cli	Cli logs
spf-trigger	SPF TRIGGER related logs

Command Mode

- /exec

show ip ospf event-history detail

show ip ospf [<tag>] [internal] event-history detail [statistics]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show event history of OSPF
detail	Show detailed event history information
statistics	(Optional) Show the state and size of the verbose history buffer

Command Mode

- /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
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ha	High Availability status
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>stateful</i>	(Optional)
<i>pss_restored</i>	(Optional)
<i>pss_state</i>	(Optional)
<i>gr_enabled</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)

Command Mode

- /exec

show ip ospf interface

```
show ip ospf [ <tag> ] interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf <ifname> <admin_status> <proto_status> [
<unnumbered> ] <addr> [ <masklen> ] [ <parent_intf> ] <area> [ <if_cfg> ] <state_str> <type_str> <cost>
[ <bfd_enabled> ] [ <ldp_sync> ] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [
<dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr>
] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [
<wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type>
] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [ <auth_keyid> ] [ <auth_algo> ] [
<link_lsa_cnt> ] [ <link_lsa_crc> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
private	(Optional) Developer-only statistics
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>admin_status</i>	(Optional)
<i>proto_status</i>	(Optional)
<i>unnumbered</i>	(Optional)
<i>addr</i>	(Optional)

<i>masklen</i>	(Optional)
<i>parent_intf</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ldp_sync</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)

<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>auth_keyid</i>	(Optional)
<i>auth_algo</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)

Command Mode

- /exec

show ip ospf interface brief

```
show ip ospf [ <tag> ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str>
<nbr_total> <admin_status> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPF interfaces
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>intf_count</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>index</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>state_str</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>admin_status</i>	(Optional)

Command Mode

- /exec

show ip ospf lsa-content-changed-list

```
show ip ospf [ <tag> ] lsa-content-changed-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__
[ TABLE_ctx <ptag> <cname> [ TABLE_lschg <nbr_rid> <intf> <nbr_addr> [ TABLE_lsa [ <type> ] [
<lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
lsa-content-changed-list	LSAs that changed contents
interface	OSPF enabled interface
ip-addr	Neighbor router ID
neighbor-name	DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_lschg	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)
age	(Optional)

Command Mode

- /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
<i>tag</i>	(Optional) Process tag
memory	Memory usage statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_mem</i>	(Optional)
<i>ptag</i>	(Optional)
<i>byte_total</i>	(Optional)
<i>byte_consumed</i>	(Optional)
<i>byte_overhead</i>	(Optional)
<i>byte_allocated</i>	(Optional)
<i>alloc_current</i>	(Optional)
<i>alloc_created</i>	(Optional)
<i>alloc_failed</i>	(Optional)
<i>alloc_free</i>	(Optional)
<i>bf_current</i>	(Optional)
<i>bf_created</i>	(Optional)
<i>bf_failed</i>	(Optional)
<i>bf_free</i>	(Optional)
<i>bf_byte_consumed</i>	(Optional)
<i>bf_32_current</i>	(Optional)
<i>bf_32_created</i>	(Optional)

<i>bf_32_failed</i>	(Optional)
<i>bf_32_free</i>	(Optional)
<i>bf_32_byte_consumed</i>	(Optional)
<i>slab_current</i>	(Optional)
<i>slab_created</i>	(Optional)
<i>slab_failed</i>	(Optional)
<i>slab_free</i>	(Optional)
<i>slab_byte_consumed</i>	(Optional)
<i>if_index_alloc_failed</i>	(Optional)
<i>nbr_index_alloc_failed</i>	(Optional)

Command Mode

- /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
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mpls	MPLS related information
ldp	LDP related information
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_ldpintf	(Optional)
<i>ifname</i>	(Optional)
<i>area</i>	(Optional)
<i>ldp_ac</i>	(Optional)

Command Mode

- /exec

show ip ospf neighbors

```
show ip ospf [ <tag> ] neighbors [ { { <interface> [ <neighbor> | <neighbor-name> ] } | { [ <neighbor> |
<neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } ] [ __readonly__ TABLE_ctx <ptag>
<cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <addr> <intf> [ <multiarea>
] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>nbrcount</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>priority</i>	(Optional)
<i>state</i>	(Optional)
<i>drstate</i>	(Optional)
<i>uptime</i>	(Optional)

<i>addr</i>	(Optional)
<i>intf</i>	(Optional)
<i>multiarea</i>	(Optional)

Command Mode

- /exec

show ip ospf neighbors detail

```
show ip ospf [ <tag> ] neighbors [ <interface> ] [ <neighbor> | <neighbor-name> ] detail [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_nbr <rid>
<addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state> ] [ <priority> ] [ <ifid> ] [ <dr> ] [
<dc> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [
<lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <helloptions> <dbdoptions> <lastnonhello> [ <deadtimer>
] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer>
] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq>
] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [ <sendlsreqreply> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
detail	Show detailed neighbor display
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>addr</i>	(Optional)

<i>area</i>	(Optional)
<i>intf</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsregrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastmonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>paddingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>regrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)

<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</i>	(Optional)
<i>dc</i>	(Optional)

Command Mode

- /exec

show ip ospf neighbors summary

```
show ip ospf [ <tag> ] neighbors [ <interface> ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <ptag> <cname> TABLE_intf { <ifname> | <total> } <down> <attempt> <init>
<twoway> <exstart> <exchange> <loading> <full> <if_total> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
summary	Summary of neighbors
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>total</i>	(Optional)
<i>down</i>	(Optional)
<i>attempt</i>	(Optional)
<i>init</i>	(Optional)
<i>twoway</i>	(Optional)
<i>exstart</i>	(Optional)
<i>exchange</i>	(Optional)

<i>loading</i>	(Optional)
<i>full</i>	(Optional)
<i>if_total</i>	(Optional)

Command Mode

- /exec

show ip ospf 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
<i>inst</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
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)
<i>as</i>	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
<i>tag</i>	Source protocol tag
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas

<code>in</code>	Filter networks sent to this area
<code>out</code>	Filter networks sent from this area
<code>__readonly__</code>	(Optional)
<code>ptag</code>	(Optional)
<code>TABLE_ctx</code>	(Optional)
<code>cname</code>	(Optional)

Command Mode

- /exec

Command Mode

- /exec

<i>age</i>	(Optional)
------------	------------

Command Mode

- /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> ] [ <ubest_nh_in_rib> ] ] [ TABLE_route_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf>
] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-addr</i>	(Optional) Show single OSPF route
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
all_routes	(Optional) Display all OSPF routes
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>hdr_addr</i>	(Optional)
<i>hdr_masklen</i>	(Optional)
TABLE_route	(Optional)
<i>addr</i>	(Optional)

<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_rib</i>	(Optional)
<i>direct</i>	(Optional)
<i>area</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_route_ubest_nh	(Optional)
<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
<i>ubest_cost</i>	(Optional)
<i>distance</i>	(Optional)
<i>ubest_nh_direct</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
TABLE_route_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)
<i>mbest_cost</i>	(Optional)
<i>mbest_nh_direct</i>	(Optional)
<i>mbest_nh_in_rib</i>	(Optional)

Command Mode

- /exec

show ip ospf route summary

```
show ip ospf [ <tag> ] route [ <ip-prefix> [ longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_route <total_routes> <total_paths> [
TABLE_route_type <path_type> <path_routes> <path_paths> ] [ TABLE_route_masklen <masklen>
<masklen_routes> <masklen_paths> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
ip-prefix	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_route	(Optional)
total_routes	(Optional)
total_paths	(Optional)
TABLE_route_type	(Optional)
path_type	(Optional)
path_routes	(Optional)
path_paths	(Optional)

TABLE_route_masklen	(Optional)
<i>masklen</i>	(Optional)
<i>masklen_routes</i>	(Optional)
<i>masklen_paths</i>	(Optional)

Command Mode

- /exec

show ip ospf 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_adj> ] [
<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> ] [ <rerrxmtimer> ] [ <fasterrxmtimer> ] [ <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	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
brief	(Optional) Display summary of OSPF sham links
__readonly__	(Optional)
ptag	(Optional)
TABLE_ctx	(Optional)
cname	(Optional)
TABLE_slink	(Optional)
name	(Optional)
nbr_rid	(Optional)

<i>if_state</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>sum_total</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)

<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)

<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>dest_ip</i>	(Optional)
<i>src_ip</i>	(Optional)
<i>ifnum</i>	(Optional)

Command Mode

- /exec

show ip ospf statistics

```
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats
<ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_recv> <nbr_state_change>
<nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full>
<spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush>
<net_generate> <net_refresh> <net_flush> <net_other_flush> <sum_generate> <sum_refresh> <sum_flush>
<sum_other_flush> <asbr_generate> <asbr_refresh> <asbr_flush> <asbr_other_flush> <asext_generate>
<asext_refresh> <asext_flush> <asext_other_flush> <opaque_link_generate> <opaque_link_refresh>
<opaque_link_flush> <opaque_link_other_flush> <opaque_area_generate> <opaque_area_refresh>
<opaque_area_flush> <opaque_area_other_flush> <opaque_as_generate> <opaque_as_refresh>
<opaque_as_flush> <opaque_as_other_flush> <limbo_lsa_count> <limbo_lsa_hwm> <limbo_lsa_deleted>
<limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [ <limbo_timer> ] <helloq_size>
<helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size>
<floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [
TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc>
<buf_free> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
__readonly__	(Optional)
TABLE_stats	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
rid_change	(Optional)
dr_elections	(Optional)
older_lsa_recv	(Optional)

<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>sum_generate</i>	(Optional)
<i>sum_refresh</i>	(Optional)
<i>sum_flush</i>	(Optional)
<i>sum_other_flush</i>	(Optional)
<i>asbr_generate</i>	(Optional)
<i>asbr_refresh</i>	(Optional)
<i>asbr_flush</i>	(Optional)
<i>asbr_other_flush</i>	(Optional)
<i>asext_generate</i>	(Optional)
<i>asext_refresh</i>	(Optional)
<i>asext_flush</i>	(Optional)
<i>asext_other_flush</i>	(Optional)

<i>opaque_link_generate</i>	(Optional)
<i>opaque_link_refresh</i>	(Optional)
<i>opaque_link_flush</i>	(Optional)
<i>opaque_link_other_flush</i>	(Optional)
<i>opaque_area_generate</i>	(Optional)
<i>opaque_area_refresh</i>	(Optional)
<i>opaque_area_flush</i>	(Optional)
<i>opaque_area_other_flush</i>	(Optional)
<i>opaque_as_generate</i>	(Optional)
<i>opaque_as_refresh</i>	(Optional)
<i>opaque_as_flush</i>	(Optional)
<i>opaque_as_other_flush</i>	(Optional)
<i>limbo_lsa_count</i>	(Optional)
<i>limbo_lsa_hwm</i>	(Optional)
<i>limbo_lsa_deleted</i>	(Optional)
<i>limbo_lsa_revived</i>	(Optional)
<i>limbo_runs</i>	(Optional)
<i>limbo_lsa_last_time_hwm</i>	(Optional)
<i>limbo_timer</i>	(Optional)
<i>helloq_size</i>	(Optional)
<i>helloq_max_size</i>	(Optional)
<i>helloq_hwm</i>	(Optional)
<i>helloq_drops</i>	(Optional)
<i>helloq_last_hwm_time</i>	(Optional)
<i>floodq_size</i>	(Optional)
<i>floodq_max_size</i>	(Optional)
<i>floodq_hwm</i>	(Optional)
<i>floodq_drops</i>	(Optional)
<i>floodq_last_hwm_time</i>	(Optional)

<i>lsdb_add_fail</i>	(Optional)
TABLE_buffer_detail	(Optional)
<i>buf_size</i>	(Optional)
<i>buf_size_huge</i>	(Optional)
<i>buf_in_use</i>	(Optional)
<i>buf_hwm</i>	(Optional)
<i>buf_perm</i>	(Optional)
<i>buf_alloc</i>	(Optional)
<i>buf_free</i>	(Optional)

Command Mode

- /exec

show ip ospf summary-address

```
show ip ospf [ <tag> ] summary-address [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ TABLE_ctx <ptag> <cname> <rid> [ TABLE_sum <addr> <masklen> [ <metric> ] [ <tag>
] [ <pending> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	(Optional) Developer-only statistics
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)
TABLE_sum	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>metric</i>	(Optional)
<i>pending</i>	(Optional)

Command Mode

- /exec

show ip ospf traffic

```
show ip ospf [ <tag> ] traffic [ <interface> [ detail ] | [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_traf <ptag> <cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out>
<lsu_first_trans> <lsu_retrans> <lsu_for_lsreq> <lsu_nbr_trans> <throttle_out> <throttle_out_token>
<throttle_out_ip> <lsa_ignored> <lsa_dropped_spf> <lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out>
<pkt_errors_in> <pkt_errors_out> <hello_errors_in> <dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in>
<lsacks_errors_in> <pkt_unknown_in> <pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc>
<dup_rtr_id> <dup_src_addr> <invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf>
<wrong_area> <invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> [ <bad_auth>
] [ <bad_reserved> ] [ <pkt_no_vrf> ] <hello_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hello_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hello_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
<i>interface</i>	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
<i>__readonly__</i>	(Optional)
TABLE_traf	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pkt_in</i>	(Optional)

<i>pkt_out</i>	(Optional)
<i>lsu_first_trans</i>	(Optional)
<i>lsu_retrans</i>	(Optional)
<i>lsu_for_lsreq</i>	(Optional)
<i>lsu_nbr_trans</i>	(Optional)
<i>throttle_out</i>	(Optional)
<i>throttle_out_token</i>	(Optional)
<i>throttle_out_ip</i>	(Optional)
<i>lsa_ignored</i>	(Optional)
<i>lsa_dropped_spf</i>	(Optional)
<i>lsa_dropped_gr</i>	(Optional)
<i>pkt_drops_in</i>	(Optional)
<i>pkt_drops_out</i>	(Optional)
<i>pkt_errors_in</i>	(Optional)
<i>pkt_errors_out</i>	(Optional)
<i>hello_errors_in</i>	(Optional)
<i>dbds_errors_in</i>	(Optional)
<i>lsreqs_errors_in</i>	(Optional)
<i>lsus_errors_in</i>	(Optional)
<i>lsacks_errors_in</i>	(Optional)
<i>pkt_unknown_in</i>	(Optional)
<i>pkt_unknown_out</i>	(Optional)
<i>pkt_no_ospf_intf</i>	(Optional)
<i>bad_version</i>	(Optional)
<i>bad_crc</i>	(Optional)
<i>dup_rtr_id</i>	(Optional)
<i>dup_src_addr</i>	(Optional)
<i>invalid_src_addr</i>	(Optional)
<i>invalid_dst_addr</i>	(Optional)

<i>non_existing_nbr</i>	(Optional)
<i>pkt_passive_intf</i>	(Optional)
<i>wrong_area</i>	(Optional)
<i>invalid_pkt_len</i>	(Optional)
<i>nbr_changed_routerid_ipaddr</i>	(Optional)
<i>nbr_changed_interfaceid</i>	(Optional)
<i>bad_auth</i>	(Optional)
<i>bad_reserved</i>	(Optional)
<i>pkt_no_vrf</i>	(Optional)
<i>hellos_in</i>	(Optional)
<i>dbds_in</i>	(Optional)
<i>lsreqs_in</i>	(Optional)
<i>lsus_in</i>	(Optional)
<i>lsacks_in</i>	(Optional)
<i>hellos_out</i>	(Optional)
<i>dbds_out</i>	(Optional)
<i>lsreqs_out</i>	(Optional)
<i>lsus_out</i>	(Optional)
<i>lsacks_out</i>	(Optional)
<i>hellos_in_hq</i>	(Optional)
<i>dbds_in_hq</i>	(Optional)
<i>lsreqs_in_flq</i>	(Optional)
<i>lsus_in_flq</i>	(Optional)
<i>lsacks_in_flq</i>	(Optional)
<i>lsas_in_dbds_in</i>	(Optional)
<i>lsas_in_lsreqs_in</i>	(Optional)
<i>lsas_in_lsus_in</i>	(Optional)
<i>lsas_in_lsacks_in</i>	(Optional)
<i>lsas_in_dbds_out</i>	(Optional)

<i>lsas_in_lsreqs_out</i>	(Optional)
<i>lsas_in_lsus_out</i>	(Optional)
<i>lsas_in_lsacks_out</i>	(Optional)
<i>lsas_in_rxmt_lsus_out</i>	(Optional)

Command Mode

- /exec

show 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
<i>tag</i>	(Optional) Process tag
traps-queue	Show all the priority traps queue parameters

Command Mode

- /exec

show ip ospf virtual-links

```
show ip ospf [ <tag> ] virtual-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_vlink <name> <nbr_rid> <if_state> <transit_area> <nh_intf> <nbr_addr> [
<transit_area_stub> ] [ <transit_area_nssa> ] <addr> [ <masklen> ] <area> [ <if_cfg> ] <state_str> <type_str>
<cost> <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [
<bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer>
] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type> ] [ <keychain_name> ] [
<keychain_ready> ] [ <auth_md5_keyid> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <dc_enabled> ] [ <state>
] [ <transition> ] [ <lastchange> ] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [
<dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts>
] [ <helloptions> ] [ <dbdoptions> ] [ <lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ]
[ <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	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_vlink	(Optional)
name	(Optional)
nbr_rid	(Optional)
if_state	(Optional)
transit_area	(Optional)

<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)

<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>hellooptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)

<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtmer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)

Command Mode

- /exec

show ip ospf virtual-links brief

```
show ip ospf [ <tag> ] virtual-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <vlink_count> [ TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost>
<if_state> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPF virtual links
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>vlink_count</i>	(Optional)
TABLE_vlink	(Optional)
<i>nbr_rid</i>	(Optional)
<i>vlink_num</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

Command Mode

- /exec

show ip overlay-traffic

show ip overlay-traffic

Syntax Description

show	Show running system information
ip	Display IP information
overlay-traffic	Display IP overlay software processed traffic statistics

Command Mode

- /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 Mode

- /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 Mode

- /exec

show ip pim df

```
show ip pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __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
ip	Display IP information
pim	Display PIM status and configuration
df	Display Bidir Designated Forwarders
<i>rp-or-group</i>	(Optional) Display for a single RP or group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
TABLE_iod	(Optional)

<i>if-name</i>	(Optional)
<i>df-winner</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

Command Mode

- /exec

show ip pim event-history

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

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM
errors	Show error logs of PIM
msgs	Show various message logs of PIM
<i>pim-event-hist-buf-name</i>	Show event hist buffer name
statistics	Show the state and size of the buffer

Command Mode

- /exec

show ip pim fabric info

show ip pim fabric info

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
info	show the fabric info

Command Mode

- /exec

show ip pim fabric legacy-vlans

show ip pim fabric legacy-vlans

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch

Command Mode

- /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>
<origin> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
group-range	Display the various group-ranges
<i>group</i>	(Optional) IP address of group to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>mode</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>sh-tree-only-range</i>	(Optional)
<i>action</i>	(Optional)
<i>origin</i>	(Optional)

Command Mode

- /exec

show ip pim interface show ip pim interface

```
show ip pim interface <interface> | show ip pim interface [ brief ] [ internal ] [ 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> <is-passive> <nbr-policy-name> <jp-in-policy-name> <jp-out-policy-name> <last-cleared>
<hello-sent> <hello-rcvd> <hello-early-sent> <jp-sent> <jp-rcvd> <assert-sent> <assert-rcvd> <graft-sent>
<graft-rcvd> <graft-ack-sent> <graft-ack-rcvd> <df-offer-sent> <df-offer-rcvd> <df-winner-sent>
<df-winner-rcvd> <df-backoff-sent> <df-backoff-rcvd> <pass-sent> <pass-rcvd> <cksum-errors>
<invalid-errors> <invalid-df-errors> <auth-failed> <pak-len-errors> <ver-errors> <pkts-self> <pkts-non-nbr>
<pkts-on-passive> <jp-rcvd-on-rpf> <jp-rcvd-no-rp> <jp-rcvd-wrong-rp> <jp-rcvd-for-ssm> <jp-rcvd-for-bidir>
<jp-in-policy-filter> <jp-out-policy-filter> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
interface	Display PIM interface related information
<i>interface</i>	Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
__readonly__	(Optional)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>dr</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)

<i>is-pim-enabled</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</i>	(Optional)
<i>if-status</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>hello-early-sent</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)

<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)
<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)
<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)

Command Mode

- /exec

show ip pim lisp encap

show ip pim lisp encap

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

Command Mode

- /exec

show ip pim mdt

```
show ip pim mdt [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <out_context>
<mti> <mti_status> <default_mdt_grp> <grp_mode> <asm_shared_tree> <mti_config_mtu> <mti_active_mtu>
<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
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
<i>mti</i>	(Optional)
<i>mti_status</i>	(Optional)
<i>default_mdt_grp</i>	(Optional)
<i>grp_mode</i>	(Optional)
<i>asm_shared_tree</i>	(Optional)
<i>mti_config_mtu</i>	(Optional)
<i>mti_active_mtu</i>	(Optional)
<i>mdt_src_if</i>	(Optional)
<i>bgp_update_src_if</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>jp_interval</i>	(Optional)

<i>data_mdt_join_interval</i>	(Optional)
<i>data_switchover_interval</i>	(Optional)
<i>data_holddown_interval</i>	(Optional)
<i>data_timeout_interval</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_src_if</i>	(Optional)
<i>bgp_rd</i>	(Optional)
<i>bgp_rd_set</i>	(Optional)
<i>send_join_count</i>	(Optional)
<i>rcvd_join_count</i>	(Optional)
TABLE_data_mdt	(Optional)
<i>grange_prefix</i>	(Optional)
<i>grange_mask_len</i>	(Optional)
<i>threshold</i>	(Optional)
<i>policy_name</i>	(Optional)

Command Mode

- /exec

show ip pim mdt bgp

show ip pim mdt bgp [mdt-source <src-addr>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
bgp	Display BGP related information
mdt-source	(Optional) Source address of MVPN neighbor
<i>src-addr</i>	(Optional) Source Address

Command Mode

- /exec

show ip pim mdt history interval

```
show ip pim mdt history interval <min> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
history	Display MDT Data Join Send Histoy
interval	Display in specified interval
<i>min</i>	Minutes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ip pim mdt receive

```
show ip pim mdt receive [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <expires> <recv_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
receive	Display Received Data Joins Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>recv_count</i>	(Optional)

Command Mode

- /exec

show ip pim mdt send

```
show ip pim mdt send [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
send	Display MDT Data Join Send Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ip pim neighbor

```
show ip pim neighbor { [ <interface> ] | [ <ipaddr> ] } [ detail | internal ] [ 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>
<longest-hello-intvl> <bidir-capable> <dr-priority> <no-dr-priority> } } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
neighbor	Display PIM neighbor related information
<i>interface</i>	(Optional) Display neighbors on single interface name
<i>ipaddr</i>	(Optional) IP address of single neighbor to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_neighbor	(Optional)
<i>nbr-addr</i>	(Optional)
<i>is-nbr-in-cib</i>	(Optional)
<i>does-nbr-exist</i>	(Optional)

<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>longest-hello-intvl</i>	(Optional)
<i>bidir-capable</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)

Command Mode

- /exec

show ip pim oif-list

```
show ip pim oif-list <group> [ <source> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf-name> { TABLE_grp <mcast-addr> <incoming-intf> <rpf-nbr> <timeout-interval>
<oif-list-count> [ { TABLE_oiflist <oif-name> } ] <timeout-list-count> [ { TABLE_timeoutlist
<timeoutoif-name> } ] <immediate-list-count> [ { TABLE_immediatelist <immediateoif-name> } ]
<immediate-timeout-list-count> [ { TABLE_immediatettimeoutlist <immediatettimeoutoif-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
<i>source</i>	(Optional) Source address to display
<i>group</i>	Group address to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_grp	(Optional)
<i>mcast-addr</i>	(Optional)
<i>incoming-intf</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>oif-list-count</i>	(Optional)
TABLE_oiflist	(Optional)
<i>oif-name</i>	(Optional)
<i>timeout-list-count</i>	(Optional)
TABLE_timeoutlist	(Optional)

<i>timeoutoif-name</i>	(Optional)
<i>immediate-list-count</i>	(Optional)
TABLE_immediatelist	(Optional)
<i>immediateoif-name</i>	(Optional)
<i>immediate-timeout-list-count</i>	(Optional)
TABLE_immediatettimeoutlist	(Optional)
<i>immediatettimeoutoif-name</i>	(Optional)

Command Mode

- /exec

show ip pim policy statistics

```
show ip pim policy statistics { register-policy | bsr { bsr-policy | rp-candidate-policy } | auto-rp {
rp-candidate-policy | mapping-agent-policy } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip pim policy statistics jp

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
<i>interface</i>	Interface to display policy statistics for

Command Mode

- /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-addr> <rp-addr> <rp-local> <bidir> <sgexpire> <sgrexpire> <timeleft> <rp-bit> <register>
<assert-timeout> <assert-metric-pref> <assert-metric> { 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> } {
TABLE_sgrprunelist <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
<i>group</i>	Group address to display
<i>source</i>	Source address to display
bitfield	(Optional) Display details of each bitfield for PIM route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_addr	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>sgrexpire</i>	(Optional)

<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>assert-timeout</i>	(Optional)
<i>assert-metric-pref</i>	(Optional)
<i>assert-metric</i>	(Optional)
TABLE_rpf	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>rpf-nbr-2</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>route-metric</i>	(Optional)
TABLE_oif	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_timeout	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_immediate	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_immediatettimeout	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)

<i>jp-holdtime</i>	(Optional)
<i>encap-index</i>	(Optional)

Command Mode

- /exec

show ip pim rp-hash

```
show ip pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
[ <rp-found> ] [ <is-rp-bsr-learnt> ] [ <out-group1> <rp-addr1> ] [ <out-group> <hash-length> <out-bsr> ]
[ { TABLE_rp <rp-addr> <hash> <isbest_hash> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp-hash	Display RP hash value for group
<i>group</i>	Group address for RP lookup
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learnt</i>	(Optional)
<i>out-group1</i>	(Optional)
<i>rp-addr1</i>	(Optional)
<i>out-group</i>	(Optional)
<i>hash-length</i>	(Optional)
<i>out-bsr</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

Command Mode

- /exec

show ip pim rp

```
show ip pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __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> <bs-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
<i>group</i>	(Optional) Display RP for group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>is-bsr-enabled</i>	(Optional)
<i>is-bsr-listen-only</i>	(Optional)
<i>is-bsr-forward-only</i>	(Optional)
<i>are-we-bsr</i>	(Optional)
<i>bsr-address</i>	(Optional)
<i>is-bsr-address</i>	(Optional)
<i>bsr-priority</i>	(Optional)
<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)

<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)
<i>is-autorp-enabled</i>	(Optional)
<i>is-autorp-listen-only</i>	(Optional)
<i>is-autorp-forward-only</i>	(Optional)
<i>are-we-autorp</i>	(Optional)
<i>autorp-address</i>	(Optional)
<i>is-autorp-address</i>	(Optional)
<i>autorp-dis-timer</i>	(Optional)
<i>autorp-up-time</i>	(Optional)
<i>autorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
<i>anycast-rp-addr</i>	(Optional)
TABLE_arp_rp	(Optional)
<i>arp-rp-addr</i>	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>is-rp-in-cib</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>autorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>autorp-info-src</i>	(Optional)

<i>bsr-info-src</i>	(Optional)
<i>is-rp-static</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>is-autorp-rp-owner</i>	(Optional)
<i>is-bsr-rp-owner</i>	(Optional)
<i>is-static-rp-owner</i>	(Optional)

Command Mode

- /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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)
<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)
<i>cand-rp-sent</i>	(Optional)

<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

Command Mode

- /exec

show ip pim vrf

```
show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ __readonly__ {
TABLE_context <out-context> <context-id> <table-id> <count> <bfd> <mvpn> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM is configured for
detail	(Optional) Display detailed information
internal	(Optional) VRF related internal information
__readonly__	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)
<i>bfd</i>	(Optional)
<i>mvpn</i>	(Optional)

Command Mode

- /exec

show ip ping source-interface

```
show ip ping source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ippingvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ippingvrf	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ping source-interface vrf all

```
show ip ping source-interface vrf all [ __readonly__ [ { TABLE_ipping <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipping	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip policy

```
show ip policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ip prefix-list

```
show ip prefix-list { { [ detail | summary ] [ <ipv4-pfl-name> | <ipv4-pfl-cfg-name> ] } | { { <ipv4-pfl-name>
| <ipv4-pfl-cfg-name> } seq <seq-no> } | { { <ipv4-pfl-name> | <ipv4-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ip_pfl <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
detail	(Optional) Show detailed information
summary	(Optional) Show summarized information
prefix-list	List IP prefix lists
<i>ipv4-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv4-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ip_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip process

```
show ip process [ api ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ip_pro_vrf
[ { <pro-cntxt-name> <pro-cntxt-id> <pro-base-tid> <pro-auto-disc> <pro-atuo-add> <pro-null-bcast>
<auto-punt-bcast> <static-disc> <static-def-route> <ip-unreach> } ] [ TABLE_pro_api [ <api-vrf>
<api-cntxt-id> <api-base-tid> <api-ip-addr> <api-rtr-id-iod> ] ] [ TABLE_iod [ { <entry-iod> } ] ] [
TABLE_local_addr [ { <local-addr> } ] ] ] [ TABLE_ip_pro_all { <all-pro-cntxt-name> <all-pro-cntxt-id>
} ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
process	Display IP global information
api	(Optional) Show api values
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ip_pro_vrf	(Optional)
<i>pro-cntxt-name</i>	(Optional)
<i>pro-cntxt-id</i>	(Optional)
<i>pro-base-tid</i>	(Optional)
<i>pro-auto-disc</i>	(Optional)
<i>pro-atuo-add</i>	(Optional)
<i>pro-null-bcast</i>	(Optional)
<i>auto-punt-bcast</i>	(Optional)
<i>static-disc</i>	(Optional)
<i>static-def-route</i>	(Optional)
<i>ip-unreach</i>	(Optional)
TABLE_pro_api	(Optional)
<i>api-vrf</i>	(Optional)

<i>api-cntxt-id</i>	(Optional)
<i>api-base-tid</i>	(Optional)
<i>api-ip-addr</i>	(Optional)
<i>api-rtr-id-iod</i>	(Optional)
TABLE_iod	(Optional)
<i>entry-iod</i>	(Optional)
TABLE_local_addr	(Optional)
<i>local-addr</i>	(Optional)
TABLE_ip_pro_all	(Optional)
<i>all-pro-cntxt-name</i>	(Optional)
<i>all-pro-cntxt-id</i>	(Optional)

Command Mode

- /exec

show ip rip

```
show { ipv6 | ip } rip [ instance <inst> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_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 <afi> { TABLE_interface <if-name> } TABLE_redistrib <redistributing> {
TABLE_clients <pibName> <policy> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<u>__readonly__</u>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>port</i>	(Optional)
<i>mcast-grp</i>	(Optional)
<i>admin-dist</i>	(Optional)
<i>update-tmr</i>	(Optional)
<i>expire-tmr</i>	(Optional)
<i>garbage-tmr</i>	(Optional)
<i>def-metric</i>	(Optional)
<i>max-paths</i>	(Optional)

<i>def-rt-distrib</i>	(Optional)
<i>def-distrib-always</i>	(Optional)
<i>process-disabled</i>	(Optional)
<i>out-of-mem</i>	(Optional)
TABLE_afi	(Optional)
<i>af</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
TABLE_redistrib	(Optional)
<i>redistributing</i>	(Optional)
TABLE_clients	(Optional)
<i>pibname</i>	(Optional)
<i>policy</i>	(Optional)

Command Mode

- /exec

show ip rip interface

```
show { ipv6 | ip } rip [ instance <inst> ] interface [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_inst <inst-name> TABLE_vrf <vrf> [ TABLE_inter
<if-name> <if-status> <protocol-up> <local-only> <no-addr-conf> <if-addr> <if-mask> <if-metric>
<poison-reverse> <if-passive> <route-dist-filter> <in-policy> <out-policy> [ { TABLE_auth <auth-ena>
<auth-type> <auth-keychain> } ] [ TABLE_detail <import-routes> <periodic-updates> <trigger-updates>
<out-mcast-request> <out-ucast-update> <out-ucast-request> <in-mcast-update> <in-mcast-request>
<in-ucast-update> <in-ucast-request> <bad-pkt> <bad-route> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
interface	RIP interface
<i>interface</i>	(Optional) RIP interface
detail	(Optional) Detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_inter	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>protocol-up</i>	(Optional)

<i>local-only</i>	(Optional)
<i>no-addr-conf</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>if-mask</i>	(Optional)
<i>if-metric</i>	(Optional)
<i>poison-reverse</i>	(Optional)
<i>if-passive</i>	(Optional)
<i>route-dist-filter</i>	(Optional)
<i>in-policy</i>	(Optional)
<i>out-policy</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-ena</i>	(Optional)
<i>auth-type</i>	(Optional)
<i>auth-keychain</i>	(Optional)
TABLE_detail	(Optional)
<i>import-routes</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)
<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

Command Mode

- /exec

show ip rip memory

```
show { ipv6 | 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
ipv6	Display IPv6 information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
memory	Display RIP memory usage information
<i>__readonly__</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
<i>type</i>	(Optional)
<i>size</i>	(Optional)
<i>count</i>	(Optional)
<i>hwm</i>	(Optional)
<i>slab</i>	(Optional)
<i>overhead</i>	(Optional)
<i>total</i>	(Optional)
TABLE_total	(Optional)
<i>total-overhead</i>	(Optional)
<i>total-total</i>	(Optional)

Command Mode

- /exec

show ip rip neighbor

```
show { ipv6 | ip } rip [ instance <inst> ] neighbor [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ TABLE_inst <inst-name> TABLE_vrf <vrf> <numberof-adj> <dead-timer-seconds>
{ TABLE_adj <adj-addr> <if-name> <last-response-sent> <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
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
neighbor	RIP neighbor
<i>interface</i>	(Optional) RIP interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>numberof-adj</i>	(Optional)
<i>dead-timer-seconds</i>	(Optional)
TABLE_adj	(Optional)
<i>adj-addr</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-response-sent-state</i>	(Optional)

<i>last-response-sent</i>	(Optional)
<i>last-response-rcvd-state</i>	(Optional)
<i>last-response-rcvd</i>	(Optional)
<i>last-request-sent-state</i>	(Optional)
<i>last-request-sent</i>	(Optional)
<i>last-request-rcvd-state</i>	(Optional)
<i>last-request-rcvd</i>	(Optional)
<i>in-bad-packets</i>	(Optional)
<i>in-bad-routes</i>	(Optional)

Command Mode

- /exec

show ip rip policy statistics redistribute

```
show ip rip [ instance <inst> ] policy statistics redistribute { bgp <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	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>as</i>	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip rip route

```
show { ipv6 | ip } rip [ instance <inst> ] route [ { <ipv6-prefix> | <ip-prefix> } [ { longer-prefixes |
shorter-prefixes } ] ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_inst
<inst-name> TABLE_vrf <vrf> [ { TABLE_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
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
route	RIP routes
summary	(Optional) route counts
<i>ip-prefix</i>	(Optional) Exact prefix
longer-prefixes	(Optional) exact match and more specific routes
shorter-prefixes	(Optional) exact match and less specific routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_route	(Optional)
<i>best-route</i>	(Optional)

<i>rt-prefix</i>	(Optional)
<i>rt-mask</i>	(Optional)
<i>rt-numnh</i>	(Optional)
TABLE_nexthop	(Optional)
<i>nh-direct</i>	(Optional)
<i>nh-redistrib</i>	(Optional)
<i>nh-addr</i>	(Optional)
<i>nh-interface</i>	(Optional)
<i>nh-metric</i>	(Optional)
<i>nh-tag</i>	(Optional)
<i>nh-state</i>	(Optional)
<i>nh-state-timer</i>	(Optional)
TABLE_summary	(Optional)
<i>is-summary</i>	(Optional)
<i>total-num-rts</i>	(Optional)
<i>total-best-rts</i>	(Optional)
<i>total-paths</i>	(Optional)
TABLE_rtspermask	(Optional)
<i>mask-length</i>	(Optional)
<i>rts-per-mask</i>	(Optional)

Command Mode

- /exec

show ip rip statistics

```
show { ipv6 | ip } rip [ instance <inst> ] statistics [ * | <interface> ] [ __readonly__ TABLE_inst <inst-name>
TABLE_interface <if-name> <periodic-updates> <trigger-updates> <out-mcast-request> <out-ucast-update>
<out-ucast-request> <in-mcast-update> <in-mcast-request> <in-ucast-update> <in-ucast-request> <bad-pkt>
<bad-route> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
statistics	RIP statistics
<i>interface</i>	(Optional) RIP interface
*	(Optional) RIP statistics for all interfaces
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)

<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

Command Mode

- /exec

show ip 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	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip rsvp

```
show ip rsvp [ __readonly__ [ <sup-state> <start-type> <restart-type> <ha-ena> <gr-ena> <hst-ena>
<glb-router-id> <psr-ena> <local-epoch> ] [ TABLE_clients <clnt-name> <clnt-sap> <clnt-type>
<clnt-batch-time> [ <clnt-lxsb> ] ] [ <bundle-ena> <bundle-time> <bundle-maxsz> ] [ <refresh-intvl>
<refresh-miss> ] [ <refred-ena> <rr-init-rexmit-delay> <rr-rapid-rexmit-ena> <rr-ack-delay> ] [ <rate-limit-ena>
<rate-limit-cap> <rate-limit-pace-intvl> ] [ <gr-tmr> [ <gr-tmr-expiry> ] ] [ <auth-ena> [ <key-src> ] [ <digest>
] [ <seq-winsize> ] [ <challenge> ] [ <lifetime> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
<i>__readonly__</i>	(Optional)
<i>sup-state</i>	(Optional)
<i>start-type</i>	(Optional)
<i>restart-type</i>	(Optional)
<i>ha-ena</i>	(Optional)
<i>gr-ena</i>	(Optional)
<i>hst-ena</i>	(Optional)
<i>glb-router-id</i>	(Optional)
<i>psr-ena</i>	(Optional)
<i>local-epoch</i>	(Optional)
<i>bundle-ena</i>	(Optional)
<i>bundle-time</i>	(Optional)
<i>bundle-maxsz</i>	(Optional)
<i>refresh-intvl</i>	(Optional)
<i>refresh-miss</i>	(Optional)
<i>refred-ena</i>	(Optional)
<i>rr-rapid-rexmit-ena</i>	(Optional)
<i>rr-init-rexmit-delay</i>	(Optional)
<i>rr-ack-delay</i>	(Optional)

<i>rate-limit-ena</i>	(Optional)
<i>rate-limit-cap</i>	(Optional)
<i>rate-limit-pace-intvl</i>	(Optional)
<i>gr-tmr</i>	(Optional)
<i>gr-tmr-expiry</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>lifetime</i>	(Optional)
TABLE_clients	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-sap</i>	(Optional)
<i>clnt-type</i>	(Optional)
<i>clnt-batch-time</i>	(Optional)
<i>clnt-lxsb</i>	(Optional)

Command Mode

- /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> [ <lifetime> <lifetime-left> <code> ]
<key-src> <key-id> [ <code> ] [ <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	(Optional) Display detailed RSVP status
interface	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
from	(Optional) Starting point of association
<i>ip_frm</i>	(Optional) Address of starting point of association
to	(Optional) Ending point of association
<i>ip_to</i>	(Optional) Address of ending point of association
<i>__readonly__</i>	(Optional)
TABLE_authentication	(Optional)
<i>src</i>	(Optional)
<i>dst</i>	(Optional)
<i>nbr-ip</i>	(Optional)
<i>interface</i>	(Optional)
<i>mode</i>	(Optional)
<i>key-src</i>	(Optional)
<i>key-id</i>	(Optional)
<i>code</i>	(Optional)
<i>lifetime</i>	(Optional)
<i>lifetime-left</i>	(Optional)

<i>digest</i>	(Optional)
<i>challenge</i>	(Optional)
<i>tx-seq</i>	(Optional)
<i>rx-seq</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>seq-wincnt</i>	(Optional)

Command Mode

- /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-recv-valid-msgs> <auth-recv-total-err> <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_send_challenges_rcvd> <auth_send_challenge_responses_sent>
<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> <resvrr-rx> <resvrr-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-resvrr-rx> <bundle-resvrr-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	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
teardown	(Optional) Display signaling tear information
authentication	(Optional) Display RSVP Security Association information
all	(Optional) Display all information
__readonly__	(Optional)
TABLE_counters	(Optional)

<i>rsn-unspec</i>	(Optional)
<i>pt-cnt-unspec</i>	(Optional)
<i>rt-cnt-unspec</i>	(Optional)
<i>rsn-path-tmo</i>	(Optional)
<i>pt-cnt-path-tmo</i>	(Optional)
<i>rt-cnt-path-tmo</i>	(Optional)
<i>rsn-resv-tmo</i>	(Optional)
<i>pt-cnt-resv-tmo</i>	(Optional)
<i>rt-cnt-resv-tmo</i>	(Optional)
<i>rsn-signaled</i>	(Optional)
<i>pt-cnt-signaled</i>	(Optional)
<i>rt-cnt-signaled</i>	(Optional)
<i>rsn-mgmt</i>	(Optional)
<i>pt-cnt-mgmt</i>	(Optional)
<i>rt-cnt-mgmt</i>	(Optional)
<i>rsn-policy</i>	(Optional)
<i>pt-cnt-policy</i>	(Optional)
<i>rt-cnt-policy</i>	(Optional)
<i>rsn-proxy</i>	(Optional)
<i>pt-cnt-proxy</i>	(Optional)
<i>rt-cnt-proxy</i>	(Optional)
<i>rsn-no-rsrc</i>	(Optional)
<i>pt-cnt-no-rsrc</i>	(Optional)
<i>rt-cnt-no-rsrc</i>	(Optional)
<i>rsn-preempted</i>	(Optional)
<i>pt-cnt-preempted</i>	(Optional)
<i>rt-cnt-preempted</i>	(Optional)
<i>rsn-msg-err</i>	(Optional)
<i>pt-cnt-msg-err</i>	(Optional)

<i>rt-cnt-msg-err</i>	(Optional)
<i>rsn-internal</i>	(Optional)
<i>pt-cnt-internal</i>	(Optional)
<i>rt-cnt-internal</i>	(Optional)
<i>rsn-traffic</i>	(Optional)
<i>pt-cnt-traffic</i>	(Optional)
<i>rt-cnt-traffic</i>	(Optional)
<i>rsn-sync-unk</i>	(Optional)
<i>pt-cnt-sync-unk</i>	(Optional)
<i>rt-cnt-sync-unk</i>	(Optional)
<i>rsn-gr-tmo</i>	(Optional)
<i>pt-cnt-gr-tmo</i>	(Optional)
<i>rt-cnt-gr-tmo</i>	(Optional)
<i>rsn-link-nbor-down</i>	(Optional)
<i>pt-cnt-link-nbor-down</i>	(Optional)
<i>rt-cnt-link-nbor-down</i>	(Optional)
<i>rsn-local-perr-psr</i>	(Optional)
<i>pt-cnt-local-perr-psr</i>	(Optional)
<i>rt-cnt-local-perr-psr</i>	(Optional)
<i>rsn-network-perr-psr</i>	(Optional)
<i>pt-cnt-network-perr-psr</i>	(Optional)
<i>rt-cnt-network-perr-psr</i>	(Optional)
<i>rsn-hello-st-tmo</i>	(Optional)
<i>pt-cnt-hello-st-tmo</i>	(Optional)
<i>rt-cnt-hello-st-tmo</i>	(Optional)
<i>rsn-plr-bkup-del</i>	(Optional)
<i>pt-cnt-plr-bkup-del</i>	(Optional)
<i>rt-cnt-plr-bkup-del</i>	(Optional)
<i>rsn-cli-clear</i>	(Optional)

<i>pt-cnt-cli-clear</i>	(Optional)
<i>rt-cnt-cli-clear</i>	(Optional)
<i>rsn-restart-cmd</i>	(Optional)
<i>pt-cnt-restart-cmd</i>	(Optional)
<i>rt-cnt-restart-cmd</i>	(Optional)
<i>rsn-intf-del</i>	(Optional)
<i>pt-cnt-intf-del</i>	(Optional)
<i>rt-cnt-intf-del</i>	(Optional)
<i>auth_send_authenticated</i>	(Optional)
<i>auth_send_authentication_failures</i>	(Optional)
<i>auth_send_challenges_rcvd</i>	(Optional)
<i>auth_send_challenge_responses_sent</i>	(Optional)
<i>auth-recv-total-err</i>	(Optional)
<i>auth-recv-valid-msgs</i>	(Optional)
<i>auth_recv_no_integrity</i>	(Optional)
<i>auth_recv_bad_digest</i>	(Optional)
<i>auth_recv_wrong_digest_type</i>	(Optional)
<i>auth_recv_seq_num_dup</i>	(Optional)
<i>auth_recv_seq_num_out_of_range</i>	(Optional)
<i>auth_recv_challenges_sent</i>	(Optional)
<i>auth_recv_challenge_timeouts</i>	(Optional)
<i>auth_recv_challenges_resent</i>	(Optional)
<i>auth_recv_challenge_responses_rcvd</i>	(Optional)
<i>auth_recv_during_challenge</i>	(Optional)
<i>auth_recv_wrong_challenge_response</i>	(Optional)
<i>auth_recv_challenge_response_dup</i>	(Optional)
<i>auth_recv_challenge_response_late</i>	(Optional)
<i>pkt-rx</i>	(Optional)
<i>pkt-tx</i>	(Optional)

<i>pkt-rx-err</i>	(Optional)
<i>pkt-tx-err</i>	(Optional)
<i>path-rx</i>	(Optional)
<i>path-tx</i>	(Optional)
<i>resv-rx</i>	(Optional)
<i>resv-tx</i>	(Optional)
<i>patherr-rx</i>	(Optional)
<i>patherr-tx</i>	(Optional)
<i>resvrr-rx</i>	(Optional)
<i>resvrr-tx</i>	(Optional)
<i>pathtear-rx</i>	(Optional)
<i>pathtear-tx</i>	(Optional)
<i>resvtear-rx</i>	(Optional)
<i>resvtear-tx</i>	(Optional)
<i>resvconf-rx</i>	(Optional)
<i>resvconf-tx</i>	(Optional)
<i>rtearconf-rx</i>	(Optional)
<i>rtearconf-tx</i>	(Optional)
<i>ack-rx</i>	(Optional)
<i>ack-tx</i>	(Optional)
<i>sref-rx</i>	(Optional)
<i>sref-tx</i>	(Optional)
<i>hello-rx</i>	(Optional)
<i>hello-tx</i>	(Optional)
<i>intchal-rx</i>	(Optional)
<i>intchal-tx</i>	(Optional)
<i>intresp-rx</i>	(Optional)
<i>intresp-tx</i>	(Optional)
<i>bundle-rx</i>	(Optional)

<i>bundle-tx</i>	(Optional)
<i>bundle-path-rx</i>	(Optional)
<i>bundle-path-tx</i>	(Optional)
<i>bundle-resv-rx</i>	(Optional)
<i>bundle-resv-tx</i>	(Optional)
<i>bundle-patherr-rx</i>	(Optional)
<i>bundle-patherr-tx</i>	(Optional)
<i>bundle-resverr-rx</i>	(Optional)
<i>bundle-resverr-tx</i>	(Optional)
<i>bundle-pathtear-rx</i>	(Optional)
<i>bundle-pathtear-tx</i>	(Optional)
<i>bundle-resvtear-rx</i>	(Optional)
<i>bundle-resvtear-tx</i>	(Optional)
<i>bundle-ack-rx</i>	(Optional)
<i>bundle-ack-tx</i>	(Optional)

Command Mode

- /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__ [ TABLE_frr <key-frr-dest> <tun-id> <source>
<bkp-ifname> <prot-intf> <nnhop> <frr-state> ] [ TABLE_frr_detail <type> <dest> <tun-id> <source> [
<bkp-ifname> <bkpifid> <mergept> <mergept-ero> <nnhop> <frr-state> <prot-intf> <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> ] ] [ <total-path> <active-path> <ready-path> <unassign-path> [ <unprotect-path> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
fast-reroute	Display RSVP fast-reroute information
detail	(Optional) Display detailed RSVP status
destination	(Optional) Display FRR data based on a destination address
<i>dest_addr</i>	(Optional) Destination address
source	(Optional) Display FRR data based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display FRR data based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display FRR data based on a source port
<i>sport-val</i>	(Optional) Source port value
protect-if	(Optional) Display FRR data based on protected interface
<i>ifname</i>	(Optional) Protected interface name
<i>__readonly__</i>	(Optional)
<i>total-path</i>	(Optional)
<i>active-path</i>	(Optional)
<i>ready-path</i>	(Optional)
<i>unassign-path</i>	(Optional)
<i>unprotect-path</i>	(Optional)
TABLE_frr	(Optional)

<i>key-frr-dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>source</i>	(Optional)
<i>bkp-ifname</i>	(Optional)
<i>prot-intf</i>	(Optional)
<i>nnhop</i>	(Optional)
<i>frr-state</i>	(Optional)
TABLE_frr_detail	(Optional)
<i>type</i>	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>source</i>	(Optional)
<i>bkp-ifname</i>	(Optional)
<i>bkpifid</i>	(Optional)
<i>mergept</i>	(Optional)
<i>mergept-ero</i>	(Optional)
<i>nnhop</i>	(Optional)
<i>frr-state</i>	(Optional)
<i>prot-intf</i>	(Optional)
<i>bw-prot</i>	(Optional)
<i>frr-bw</i>	(Optional)
<i>bw-prot-level</i>	(Optional)
<i>desrd-bit</i>	(Optional)
<i>b-sel-prio</i>	(Optional)
<i>bkp-src</i>	(Optional)
<i>tail-addr</i>	(Optional)
<i>bkp-phy-ifnm</i>	(Optional)
<i>bkp-phy-ifaddr</i>	(Optional)
<i>bkp-phy-mtu</i>	(Optional)

Command Mode

- /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> [ <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	(Optional) Display detailed RSVP status
__readonly__	(Optional)
TABLE_hc_lsp_sum	(Optional)
<i>src-addr</i>	(Optional)
<i>dst-addr</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)
<i>subgrp-id</i>	(Optional)
<i>lsp-flags</i>	(Optional)
<i>gr-up-nbr</i>	(Optional)
<i>gr-down-nbr</i>	(Optional)
<i>rr-up-nbr</i>	(Optional)
<i>rr-down-nbr</i>	(Optional)
<i>incompl-nbr-type</i>	(Optional)

Command Mode

- /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	(Optional) Display detailed RSVP status
__readonly__	(Optional)
TABLE_clnt_nbr_sum	(Optional)
<i>nbr-addr</i>	(Optional)
<i>nbr-type</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>hi-state</i>	(Optional)
<i>lsp-count</i>	(Optional)

Command Mode

- /exec

show ip rsvp hello graceful-restart

```
show ip rsvp hello graceful-restart [ __readonly__ [ TABLE_gr <gr-state> <gr-mode> <refresh-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 information
<i>__readonly__</i>	(Optional)
<i>TABLE_gr</i>	(Optional)
<i>gr-state</i>	(Optional)
<i>gr-mode</i>	(Optional)
<i>refresh-interval</i>	(Optional)
<i>refresh-misses</i>	(Optional)
<i>dscp</i>	(Optional)
<i>restart-time</i>	(Optional)
<i>recover-time</i>	(Optional)
<i>max-recover-wait</i>	(Optional)

Command Mode

- /exec

show ip rsvp hello instance

```
show ip rsvp hello instance [ interface <ifname> ] [ neighbor <nbr-addr> ] [ detail ] [ __readonly__ [
TABLE_hello_inst <key-inst-client-type> <nbr-ip> <if-name> <nbr-state> <lost-comm-count> <lsp-count>
<hello-interval> ] [ TABLE_hello_detail <key-det-nbr-ip> <src-ip> <hi-type> <if-name> <nbr-state>
<client-type> <lsp-count> <missed-acks-conf> <ref-interval> <src-inst> <nbr-inst> [ <rest-time> <rec-time>
] <lost-comm-count> <missed_ack_cnt> <bad-src-inst-cnt> <bad-dst-inst-cnt> <nbr-disabled-hi-cnt>
<msg-rcvd> <msg-sent> <msg-supp> ] [ TABLE_hello_passive_inst <key-psv-nbr-ip> <if-name> ] ]
```

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	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
neighbor	(Optional) Display information for Hello neighbor
<i>nbr-addr</i>	(Optional) RSVP Neighbor address
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
TABLE_hello_inst	(Optional)
<i>key-inst-client-type</i>	(Optional)
<i>nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>lost-comm-count</i>	(Optional)
<i>lsp-count</i>	(Optional)
<i>hello-interval</i>	(Optional)
TABLE_hello_detail	(Optional)
<i>key-det-nbr-ip</i>	(Optional)
<i>src-ip</i>	(Optional)

<i>hi-type</i>	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>client-type</i>	(Optional)
<i>lsp-count</i>	(Optional)
<i>missed-acks-conf</i>	(Optional)
<i>ref-interval</i>	(Optional)
<i>src-inst</i>	(Optional)
<i>nbr-inst</i>	(Optional)
<i>rest-time</i>	(Optional)
<i>rec-time</i>	(Optional)
<i>missed_ack_cnt</i>	(Optional)
<i>bad-src-inst-cnt</i>	(Optional)
<i>bad-dst-inst-cnt</i>	(Optional)
<i>lost-comm-count</i>	(Optional)
<i>nbr-disabled-hi-cnt</i>	(Optional)
<i>msg-rcvd</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-supp</i>	(Optional)
TABLE_hello_passive_inst	(Optional)
<i>key-psv-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)

Command Mode

- /exec

show ip rsvp interface

```
show ip rsvp interface [ <ifname> ] [ detail | backup-tunnel ] [ __readonly__ [ TABLE_inter <key-if-name>
<ifid> <iod> <mpls-ena> <conf-ena> <state> ] [ TABLE_bkp_inter <key-bkp-if-name> <ifid> <iod> <mtu>
<state> <tail-addr> <phys-if> ] [ TABLE_detail <key-det-if-name> <iod> <ifid> <ifaddr> <masklen>
<mpls-ena> <conf-ena> <dyn-type> <dyn-keepalive-flg> <state> <if-flags> <mtu> <dyn-tmr> [ <dyn-expiry>
] <sig-dscp> <hello-dscp> <tcsb-count> <ip-nbr-cnt> <in-list-cnt> <rr-enabled> <max-sr-size-conf>
<max-sr-size> <refresh-timer> <sum-refresh-timer> <time-refresh-intval> <expiry-timer> <expiry-intval>
<miss-limit> <bundle-ena> <max-bundle-sz> <rel-ena> <ack-tmr> <ack-init-rexmit> <ack-intval>
<ack-max-conf-size> <ack-max-size> <sr-rel> < pacing-ena> <pace-tmr> <pace_intval> <pace-cap-rate>
<pace-msg-count> <pace-msg-defer-count> <auth-ena> [ <key-src> <digest> <seq-winsize> <challenge> ]
<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
<i>ifname</i>	(Optional) Display RSVP interface information
backup-tunnel	(Optional) Display backup tunnel information
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
TABLE_inter	(Optional)
<i>key-if-name</i>	(Optional)
<i>ifid</i>	(Optional)
<i>iod</i>	(Optional)
<i>mpls-ena</i>	(Optional)
<i>conf-ena</i>	(Optional)
<i>state</i>	(Optional)
TABLE_bkp_inter	(Optional)
<i>key-bkp-if-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>ifid</i>	(Optional)
<i>mtu</i>	(Optional)

<i>state</i>	(Optional)
<i>tail-addr</i>	(Optional)
<i>phys-if</i>	(Optional)
TABLE_detail	(Optional)
<i>key-det-if-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>ifid</i>	(Optional)
<i>ifaddr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>mpls-ena</i>	(Optional)
<i>conf-ena</i>	(Optional)
<i>state</i>	(Optional)
<i>if-flags</i>	(Optional)
<i>dyn-type</i>	(Optional)
<i>mtu</i>	(Optional)
<i>dyn-tmr</i>	(Optional)
<i>dyn-expiry</i>	(Optional)
<i>dyn-keepalive-flg</i>	(Optional)
<i>tcsb-count</i>	(Optional)
<i>ip-nbr-cnt</i>	(Optional)
<i>in-list-cnt</i>	(Optional)
<i>rr-enabled</i>	(Optional)
<i>refresh-timer</i>	(Optional)
<i>sum-refresh-timer</i>	(Optional)
<i>time-refresh-intval</i>	(Optional)
<i>max-sr-size</i>	(Optional)
<i>max-sr-size-conf</i>	(Optional)
<i>sr-rel</i>	(Optional)
<i>max-bundle-sz</i>	(Optional)

<i>expiry-timer</i>	(Optional)
<i>expiry-intval</i>	(Optional)
<i>miss-limit</i>	(Optional)
<i>bundle-ena</i>	(Optional)
<i>rel-ena</i>	(Optional)
<i>ack-intval</i>	(Optional)
<i>ack-max-size</i>	(Optional)
<i>ack-max-conf-size</i>	(Optional)
<i>ack-tmr</i>	(Optional)
<i>ack-init-rexmit</i>	(Optional)
<i>sig-dscp</i>	(Optional)
<i>hello-dscp</i>	(Optional)
<i> pacing-ena</i>	(Optional)
<i>pace-tmr</i>	(Optional)
<i>pace_intval</i>	(Optional)
<i>pace-cap-rate</i>	(Optional)
<i>pace-msg-count</i>	(Optional)
<i>pace-msg-defer-count</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>hst-ena</i>	(Optional)
<i>hst-intval</i>	(Optional)
<i>missed_acks</i>	(Optional)

Command Mode

- /exec

show ip rsvp neighbor

```
show ip rsvp neighbor [ <nbr> ] [ detail ] [ private ] [ __readonly__ [ TABLE_nbr <key-nbr-ip> <if-name>
<rtr-id> <state> <expires> <last-ref-time> ] [ TABLE_detail <key-det-nbr-ip> <if-name> <local-rid> <rtr-id>
<state> <flags> <epoch> <expires> <ref-list-type> [ TABLE_nbr_list <list-id> <ref-list-name> <ref-list-cnt>
] <msgid-cnt> <ooo-msg-cnt> <ackdb-cnt> <rexmit-cnt> <pfc-trigger-cnt> <req-trigger-cnt> <bundle-timer>
<bundle-cnt> <last-ref-sref> <last-ref-time> <last-ref-rc> [ <auth-ena> [ <key-src> <digest> <seq-winsize>
<challenge> <lifetime> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
neighbor	Display RSVP neighbor information
<i>nbr</i>	(Optional) RSVP Neighbor address
detail	(Optional) Display detailed RSVP status
private	(Optional) Display RSVP internal information
<u>__readonly__</u>	(Optional)
TABLE_nbr	(Optional)
<i>key-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>state</i>	(Optional)
<i>expires</i>	(Optional)
<i>last-ref-time</i>	(Optional)
TABLE_detail	(Optional)
<i>key-det-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>local-rid</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>state</i>	(Optional)
<i>flags</i>	(Optional)

<i>epoch</i>	(Optional)
<i>expires</i>	(Optional)
<i>ref-list-type</i>	(Optional)
<i>msgid-cnt</i>	(Optional)
<i>ooo-msg-cnt</i>	(Optional)
<i>ackdb-cnt</i>	(Optional)
<i>remit-cnt</i>	(Optional)
<i>pfm-trigger-cnt</i>	(Optional)
<i>req-trigger-cnt</i>	(Optional)
<i>bundle-timer</i>	(Optional)
<i>bundle-cnt</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>lifetime</i>	(Optional)
TABLE_nbr_list	(Optional)
<i>list-id</i>	(Optional)
<i>ref-list-name</i>	(Optional)
<i>ref-list-cnt</i>	(Optional)

Command Mode

- /exec

show ip rsvp reservation

```
show ip rsvp reservation [ destination <dest_addr> ] [ sender <src_addr> ] [ dst-port <dport-val> ] [ src-port <sport-val> ] [ private ] [ detail ] [ __readonly__ [ <total-count> ] [ TABLE_resv <dest-ip> <src-ip> <prot> <dport> <src-port> <nhop> <in-if> <style> ] [ TABLE_resv_detail <key-show-ip-rsvp-resv-det> [ TABLE_sess_info [ <unsup-type> ] [ TABLE_v4 <dest> <prot-id> <police> <dest-port> ] [ TABLE_tun_v4 <dest> <tun-id> <ext-dun-id> ] [ TABLE_tun_p2mp_ipv4 <p2mp-id> <tun-id> <ext-tun-id> ] ] [ TABLE_sender_tmpl [ <unsupported-templ-type> ] [ TABLE_type_v4 <sender> <port> ] [ TABLE_type_lsp_tun_v4 <tun-sender> <lsp-id> ] [ TABLE_type_lsp_tun_p2mp_v4 <tun_sender> <lsp-id> <subgrp-orig> <subgrp-id> ] ] <nhop> <nhop-if> [ <ref-time> <ref-expiry> ] [ <last-ref-sref> <last-ref-time> <last-ref-rc> ] [ <rcvd-msgid> <in-ack-db> ] [ <xmit-msgid> <rr-stage> <ack-out> ] <rsb-flags> <req-flags> [ <label> ] <style> <resv-hndl> [ TABLE_fspeg [ <type> <len> [ <ver> <hdr-len> ] ] [ TABLE_uni <sig-type> <cct> <ncc> <nvc> <mult> <trans> ] [ TABLE_intsrv_gtd <svc-id> <svc-len> <parm-id> <parm-flg> <parm-len> <avg-rate> <depth> <peak-rate> <min-unit> <max-unit> <rspec-parm-id> <rspec-parm-flg> <rspec-parm-len> <req-rate> <rspec-slack> ] [ TABLE_intsrv_cload <svc-id> <svc-len> <parm-id> <parm-flg> <parm-len> <avg-rate> <depth> <peak-rate> <min-unit> <max-unit> ] [ TABLE_intsrv_qual <svc-id> <svc-len> ] ] [ TABLE_rro <key-show-rro-start> [ <rro-len> ] [ TABLE_v4 <addr> <rro-flags> [ <local-prot> ] [ <in-use> ] [ <has-bw> ] [ <to-nnhop> ] [ <to-nhop> ] [ <no-prot> ] [ <node-id> ] ] [ TABLE_label <lbl-flags> <label-ctype> <label> ] [ TABLE_unnum <tr-id> <ifindex> <flags> ] ] [ <prot-flags> ] [ <plr-flags> <plr-filter-addr> <plink-nhop-addr> ] [ <mp-label> <mp-filter-addr> ] ] [ <proxy-status> ] [ <policy-status> [ <policy-src> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
reservation	Display RSVP reservations
destination	(Optional) Display RESV based on a destination address
<i>dest_addr</i>	(Optional) Destination address
sender	(Optional) Display RESV based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display RESV based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display RESV based on a source port
<i>sport-val</i>	(Optional) Source port value
private	(Optional) Display RSVP internal information
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)

<i>total-count</i>	(Optional)
TABLE_resv	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>src-ip</i>	(Optional)
<i>src-port</i>	(Optional)
<i>prot</i>	(Optional)
<i>in-if</i>	(Optional)
<i>nhop</i>	(Optional)
<i>style</i>	(Optional)
TABLE_resv_detail	(Optional)
<i>key-show-ip-rsvp-resv-det</i>	(Optional)
<i>resv-hndl</i>	(Optional)
<i>nhop-if</i>	(Optional)
<i>nhop</i>	(Optional)
<i>rr-stage</i>	(Optional)
<i>ref-time</i>	(Optional)
<i>ref-expiry</i>	(Optional)
<i>label</i>	(Optional)
<i>proxy-status</i>	(Optional)
<i>policy-status</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>xmit-msgid</i>	(Optional)
<i>ack-out</i>	(Optional)
<i>rcvd-msgid</i>	(Optional)
<i>style</i>	(Optional)
<i>in-ack-db</i>	(Optional)

<i>rsb-flags</i>	(Optional)
<i>req-flags</i>	(Optional)
TABLE_sess_info	(Optional)
<i>unsup-type</i>	(Optional)
TABLE_v4	(Optional)
<i>dest</i>	(Optional)
<i>prot-id</i>	(Optional)
<i>police</i>	(Optional)
<i>dest-port</i>	(Optional)
TABLE_tun_v4	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-dun-id</i>	(Optional)
TABLE_tun_p2mp_ipv4	(Optional)
<i>p2mp-id</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-tun-id</i>	(Optional)
TABLE_sender_tmpl	(Optional)
<i>unsupported-templ-type</i>	(Optional)
TABLE_type_v4	(Optional)
<i>sender</i>	(Optional)
<i>port</i>	(Optional)
TABLE_type_lsp_tun_v4	(Optional)
<i>tun-sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
TABLE_type_lsp_tun_p2mp_v4	(Optional)
<i>tun_sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)

<i>subgrp-id</i>	(Optional)
TABLE_rro	(Optional)
<i>key-show-rro-start</i>	(Optional)
<i>rro-len</i>	(Optional)
TABLE_v4	(Optional)
<i>addr</i>	(Optional)
<i>rro-flags</i>	(Optional)
<i>local-prot</i>	(Optional)
<i>in-use</i>	(Optional)
<i>has-bw</i>	(Optional)
<i>to-nhop</i>	(Optional)
<i>to-nnhop</i>	(Optional)
<i>no-prot</i>	(Optional)
<i>node-id</i>	(Optional)
TABLE_label	(Optional)
<i>lbl-flags</i>	(Optional)
<i>label-ctype</i>	(Optional)
<i>label</i>	(Optional)
TABLE_unnum	(Optional)
<i>rtr-id</i>	(Optional)
<i>ifindex</i>	(Optional)
<i>flags</i>	(Optional)
TABLE_fspec	(Optional)
<i>type</i>	(Optional)
<i>len</i>	(Optional)
<i>ver</i>	(Optional)
<i>hdr-len</i>	(Optional)
TABLE_uni	(Optional)
<i>sig-type</i>	(Optional)

<i>cct</i>	(Optional)
<i>ncc</i>	(Optional)
<i>nvc</i>	(Optional)
<i>mult</i>	(Optional)
<i>trans</i>	(Optional)
TABLE_intsrv_gtd	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>parm-id</i>	(Optional)
<i>parm-flg</i>	(Optional)
<i>parm-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>depth</i>	(Optional)
<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
<i>rspec-parm-id</i>	(Optional)
<i>rspec-parm-flg</i>	(Optional)
<i>rspec-parm-len</i>	(Optional)
<i>req-rate</i>	(Optional)
<i>rspec-slack</i>	(Optional)
TABLE_intsrv_cload	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>parm-id</i>	(Optional)
<i>parm-flg</i>	(Optional)
<i>parm-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>depth</i>	(Optional)

<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
TABLE_intsrv_qual	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>prot-flags</i>	(Optional)
<i>plr-flags</i>	(Optional)
<i>plr-filter-addr</i>	(Optional)
<i>plink-nhop-addr</i>	(Optional)
<i>mp-label</i>	(Optional)
<i>mp-filter-addr</i>	(Optional)
<i>policy-src</i>	(Optional)

Command Mode

- /exec

show ip rsvp sender

```
show ip rsvp sender [ destination <dest_addr> ] [ sender <src_addr> ] [ dst-port <dport-val> ] [ src-port
<sport-val> ] [ private ] [ detail ] [ __readonly__ [ <total-count> ] [ TABLE_path <dest-ip> <src-ip> <prot>
<dport> <src-port> <phop><in-if> ] [ TABLE_path_detail <start-show-ip-rsvp-path-det> [ TABLE_sess_info
[ <unsup-type> ] [ TABLE_v4 <dest> <prot-id> <police> <dest-port> ] [ TABLE_tun_v4 <dest> <tun-id>
<ext-dun-id> ] [ TABLE_tun_p2mp_ipv4 <p2mp-id> <tun-id> <ext-tun-id> ] ] [ TABLE_sender_tmpl [
<unsupported-templ-type> ] [ TABLE_type_v4 <sender> <port> ] [ TABLE_type_lsp_tun_v4 <tun_sender>
<lsp-id> ] [ TABLE_type_lsp_tun_p2mp_v4 <tun_sender> <lsp-id> <subgrp-orig> <subgrp-id> ] ] [ <phop>
<phop-intf> <ref-time> <exp-time> ] [ <last-ref-sref> <last-ref-time> <last-ref-rc> <nhop> <nhop-intf> ] [
<rcvd-msgid> <in-ack-db> ] [ <xmit-msgid> <rr-stage> <ack-out> ] [ <psb-flags> <pfc-flags> [
TABLE_path_sess_in <setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style>
] [ <ero-exp-req> ] [ <bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_path_sess_out
<setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style> ] [ <ero-exp-req> ] [
<bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_ero <in-out> [ TABLE_ero_type
<show-sender-ero-start> [ <unk-obj-type> <unk-obj-len> ] [ TABLE_ero_ipv4 <hop> <loose-strict> <len>
<prefix-len> ] [ TABLE_ero_ipv6 <loose-strict> <len> ] [ TABLE_ero_unnum <gen-len> <rtr-id> <intf-id>
] [ TABLE_ero_as <loose-strict> <len> <as-num> ] ] [ TABLE_rro <key-show-rro-start> [ <rro-len> ] [
TABLE_v4 <addr> <rro-flags> [ <local-prot> ] [ <in-use> ] [ <has-bw> ] [ <to-nnhop> ] [ <to-nhop> ] [
<no-prot> ] [ <node-id> ] ] [ TABLE_label <lbl-flags> <label-ctype> <label> ] [ TABLE_unnum <rtr-id>
<ifindex> <flags> ] ] <class-type> [ TABLE_tspec <type> <obj_len> <version> <total_len> [
TABLE_uni_tspec <len> <sig-type> <cct> <ncc> <nvc> <mult> <trans> ] [ TABLE_intsrv <serv-id>
<serv-len> <param-id> <flags> <param-len> <avg-rate> <avg-depth> <peak-rate> <min-unit> <max-unit>
] ] [ <ds-flag> ] [ [ <plr-flag> ] <backup-ifname> [ <plr-template> <orig-ero-mp> ] [ <backup-phys-if> ] ] [
<mp-template> <orig-in-if> ] <path-hndl> <policy-state> [ <policy-src> ] [ <proxy-state> ] [ TABLE_psb_pfc
<pfc-output-intf> <pfc-policy-status> <pfc-policy-handle> [ <pfc-policy-query-state> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
sender	Display PATH information
destination	(Optional) Display PATH based on a destination address
<i>dest_addr</i>	(Optional) Destination address
sender	(Optional) Display PATH based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display PATH based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display PATH based on a source port
<i>sport-val</i>	(Optional) Source port value

<i>private</i>	(Optional) Display RSVP internal information
<i>detail</i>	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
<i>total-count</i>	(Optional)
<i>TABLE_path</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>src-ip</i>	(Optional)
<i>src-port</i>	(Optional)
<i>prot</i>	(Optional)
<i>phop</i>	(Optional)
<i>TABLE_path_detail</i>	(Optional)
<i>start-show-ip-rsvp-path-det</i>	(Optional)
<i>phop-intf</i>	(Optional)
<i>ref-time</i>	(Optional)
<i>exp-time</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-intf</i>	(Optional)
<i>class-type</i>	(Optional)
<i>path-hndl</i>	(Optional)
<i>policy-state</i>	(Optional)
<i>policy-src</i>	(Optional)
<i>proxy-state</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>rr-stage</i>	(Optional)
<i>xmit-msgid</i>	(Optional)
<i>ack-out</i>	(Optional)

<i>rcvd-msgid</i>	(Optional)
<i>in-ack-db</i>	(Optional)
<i>psb-flags</i>	(Optional)
<i>pfc-flags</i>	(Optional)
<i>ds-flag</i>	(Optional)
<i>plr-flag</i>	(Optional)
<i>backup-ifname</i>	(Optional)
<i>plr-template</i>	(Optional)
<i>orig-ero-mp</i>	(Optional)
<i>backup-phys-if</i>	(Optional)
<i>mp-template</i>	(Optional)
<i>orig-in-if</i>	(Optional)
TABLE_path_sess_in	(Optional)
<i>setup-prio</i>	(Optional)
<i>res-prio</i>	(Optional)
<i>attr-flags</i>	(Optional)
<i>prot-desired</i>	(Optional)
<i>label-rec</i>	(Optional)
<i>se-style</i>	(Optional)
<i>ero-exp-req</i>	(Optional)
<i>bw-prot-desired</i>	(Optional)
<i>node-prot-desired</i>	(Optional)
<i>sess-name</i>	(Optional)
TABLE_path_sess_out	(Optional)
<i>setup-prio</i>	(Optional)
<i>res-prio</i>	(Optional)
<i>attr-flags</i>	(Optional)
<i>prot-desired</i>	(Optional)
<i>label-rec</i>	(Optional)

<i>se-style</i>	(Optional)
<i>ero-exp-req</i>	(Optional)
<i>bw-prot-desired</i>	(Optional)
<i>node-prot-desired</i>	(Optional)
<i>sess-name</i>	(Optional)
TABLE_sess_info	(Optional)
<i>unsup-type</i>	(Optional)
TABLE_v4	(Optional)
<i>dest</i>	(Optional)
<i>prot-id</i>	(Optional)
<i>police</i>	(Optional)
<i>dest-port</i>	(Optional)
TABLE_tun_v4	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-dun-id</i>	(Optional)
TABLE_tun_p2mp_ipv4	(Optional)
<i>p2mp-id</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-tun-id</i>	(Optional)
TABLE_sender_tmpl	(Optional)
<i>unsupported-templ-type</i>	(Optional)
TABLE_type_v4	(Optional)
<i>sender</i>	(Optional)
<i>port</i>	(Optional)
TABLE_type_lsp_tun_v4	(Optional)
<i>tun-sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
TABLE_type_lsp_tun_p2mp_v4	(Optional)

<i>tun_sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)
<i>subgrp-id</i>	(Optional)
TABLE_ero	(Optional)
<i>in-out</i>	(Optional)
TABLE_ero_type	(Optional)
<i>show-sender-ero-start</i>	(Optional)
<i>unk-obj-type</i>	(Optional)
<i>unk-obj-len</i>	(Optional)
TABLE_ero_ipv4	(Optional)
<i>hop</i>	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
<i>prefix-len</i>	(Optional)
TABLE_ero_ipv6	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
TABLE_ero_unnum	(Optional)
<i>gen-len</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>intf-id</i>	(Optional)
TABLE_ero_as	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
<i>as-num</i>	(Optional)
TABLE_rro	(Optional)
<i>key-show-rro-start</i>	(Optional)
<i>rro-len</i>	(Optional)

TABLE_v4	(Optional)
<i>addr</i>	(Optional)
<i>rro-flags</i>	(Optional)
<i>local-prot</i>	(Optional)
<i>in-use</i>	(Optional)
<i>has-bw</i>	(Optional)
<i>to-nhop</i>	(Optional)
<i>to-nnhop</i>	(Optional)
<i>no-prot</i>	(Optional)
<i>node-id</i>	(Optional)
TABLE_label	(Optional)
<i>lbl-flags</i>	(Optional)
<i>label-ctype</i>	(Optional)
<i>label</i>	(Optional)
TABLE_unnum	(Optional)
<i>rtr-id</i>	(Optional)
<i>ifindex</i>	(Optional)
<i>flags</i>	(Optional)
TABLE_tspec	(Optional)
<i>type</i>	(Optional)
<i>obj_len</i>	(Optional)
<i>version</i>	(Optional)
<i>total_len</i>	(Optional)
TABLE_uni_tspec	(Optional)
<i>sig-type</i>	(Optional)
<i>cct</i>	(Optional)
<i>ncc</i>	(Optional)
<i>nvc</i>	(Optional)
<i>mult</i>	(Optional)

<i>trans</i>	(Optional)
TABLE_intsrv	(Optional)
<i>serv-id</i>	(Optional)
<i>serv-len</i>	(Optional)
<i>param-id</i>	(Optional)
<i>flags</i>	(Optional)
<i>param-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>avg-depth</i>	(Optional)
<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
TABLE_psb_pfc	(Optional)
<i>pfc-output-intf</i>	(Optional)
<i>pfc-policy-status</i>	(Optional)
<i>pfc-policy-handle</i>	(Optional)
<i>pfc-policy-query-state</i>	(Optional)

Command Mode

- /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	(Optional) Display Sessions based on a destination address
<i>dest_addr</i>	(Optional) Destination address
<i>__readonly__</i>	(Optional)
<i>total-count</i>	(Optional)
TABLE_session	(Optional)
<i>type</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>tunnel-id</i>	(Optional)
<i>psb-cnt</i>	(Optional)
<i>rsb-cnt</i>	(Optional)
<i>reqs</i>	(Optional)
<i>pxbs</i>	(Optional)
<i>rxbs</i>	(Optional)

Command Mode

- /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
<i>__readonly__</i>	(Optional)
<i>TABLE_counters</i>	(Optional)
<i>rlim-ena</i>	(Optional)
<i>limit</i>	(Optional)
<i>intvl</i>	(Optional)

Command Mode

- /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 messages
<i>__readonly__</i>	(Optional)
<i>TABLE_counters</i>	(Optional)
<i>interval</i>	(Optional)

Command Mode

- /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__	(Optional)
TABLE_counters	(Optional)
<i>misses</i>	(Optional)

Command Mode

- /exec

show ip rsvp signalling refresh reduction

```
show ip rsvp signalling refresh reduction [ __readonly__ TABLE_counters <rr-ena> <ackdelay> <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
<i>__readonly__</i>	(Optional)
<i>TABLE_counters</i>	(Optional)
<i>rr-ena</i>	(Optional)
<i>ackdelay</i>	(Optional)
<i>epoch</i>	(Optional)
<i>msgid-inuse</i>	(Optional)
<i>msgid-alloc</i>	(Optional)
<i>msgid-free</i>	(Optional)

Command Mode

- /exec

show ip sla application

```
show ip sla application [ __readonly__ <version> <line-length> <type-name> <feature-name>
<lowmemorymark> <max-entries> <probe-cap> <entries-config> <entries-active> <entries-pending>
<entries-inactive> <last-change-time> <rttMonApplTimeOfLastSet> <rttMonApplReset> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
application	IP SLAs Application
<i>__readonly__</i>	(Optional)
<i>version</i>	(Optional)
<i>line-length</i>	(Optional)
<i>type-name</i>	(Optional)
<i>entries-config</i>	(Optional)
<i>entries-active</i>	(Optional)
<i>entries-pending</i>	(Optional)
<i>entries-inactive</i>	(Optional)
<i>last-change-time</i>	(Optional)
<i>rttMonApplTimeOfLastSet</i>	(Optional)
<i>rttMonApplReset</i>	(Optional) Appl Reset
<i>feature-name</i>	(Optional)
<i>lowmemorymark</i>	(Optional)
<i>max-entries</i>	(Optional)
<i>probe-cap</i>	(Optional)

Command Mode

- /exec

show ip sla configuration

```
show ip sla configuration [ <entry-num> ] [ __readonly__ { TABLE_oper <index> <oper-type> <owner>
<tag> <threshold> <timeout> <dest-ip> <source-ip> <dest-port> <source-port> <dns-source-port>
<dns-name-server> <traffic-class> <flow-label> <tos> <vrf-name> <source-int> } { TABLE_control
<control-enabled> } { TABLE_udpecho <packet-size> <verify-data> <data-pattern> } { TABLE_icmpecho
<packet-size> <verify-data> } { TABLE_dns } { TABLE_fabricpath <profile-id> <switch-id> <interface>
} { TABLE_udpjitter <packet-size> <packet-interval> <num-packets> <codec-type> <codec-num-packets>
<codec-packet-size> <codec-packet-interval> <codec-adv-factor> <verify-data> <packet-priority>
<ntp-sync-tolerance> <ntp-sync-toctype> } { TABLE_schedule <frequency> <secondary-freq-timeout>
<secondary-freq-loss> <next-start-time> <group-scheduled> <randomly-scheduled> <low-frequency>
<high-frequency> <life> <ageout> <recurring> <status-of-entry> } { TABLE_diststats <hours> <buckets>
<precision> <interval> } { TABLE_enhhistory <einterval> <ebuckets> } { TABLE_history-stats <lives>
<hsbuckets> <filter> } ]
```

Syntax Description

<code>__readonly__</code>	(Optional)
<code>index</code>	(Optional)
<code>TABLE_oper</code>	(Optional) Show operation information
<code>owner</code>	(Optional)
<code>tag</code>	(Optional)
<code>threshold</code>	(Optional)
<code>timeout</code>	(Optional)
<code>oper-type</code>	(Optional)
<code>dest-ip</code>	(Optional)
<code>source-ip</code>	(Optional)
<code>dest-port</code>	(Optional)
<code>source-port</code>	(Optional)
<code>dns-source-port</code>	(Optional)
<code>traffic-class</code>	(Optional)
<code>flow-label</code>	(Optional)
<code>tos</code>	(Optional)
<code>vrf-name</code>	(Optional)
<code>source-int</code>	(Optional)
<code>dns-name-server</code>	(Optional)

TABLE_control	(Optional) Show control information
<i>control-enabled</i>	(Optional)
TABLE_udpecho	(Optional) Show UDP echo information
<i>data-pattern</i>	(Optional)
TABLE_icmpecho	(Optional) Show ICMP echo information
TABLE_dns	(Optional) Show DNS information
TABLE_fabricpath	(Optional) Show FABRIC PATH echo information
<i>profile-id</i>	(Optional)
<i>switch-id</i>	(Optional)
<i>interface</i>	(Optional)
TABLE_udpjitter	(Optional) Show UDP jitter information
<i>packet-size</i>	(Optional)
<i>packet-interval</i>	(Optional)
<i>num-packets</i>	(Optional)
<i>codec-type</i>	(Optional)
<i>codec-num-packets</i>	(Optional)
<i>codec-packet-size</i>	(Optional)
<i>codec-packet-interval</i>	(Optional)
<i>codec-adv-factor</i>	(Optional)
<i>verify-data</i>	(Optional)
<i>packet-priority</i>	(Optional)
<i>ntp-sync-tolerance</i>	(Optional)
<i>ntp-sync-toltype</i>	(Optional)
TABLE_schedule	(Optional) Show schedule information
<i>frequency</i>	(Optional)
<i>secondary-freq-timeout</i>	(Optional)
<i>secondary-freq-loss</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>group-scheduled</i>	(Optional)

<i>randomly-scheduled</i>	(Optional)
<i>low-frequency</i>	(Optional)
<i>high-frequency</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)
<i>recurring</i>	(Optional)
<i>status-of-entry</i>	(Optional)
TABLE_diststats	(Optional) Show distribution of statistics information
<i>hours</i>	(Optional)
<i>buckets</i>	(Optional)
<i>precision</i>	(Optional)
<i>interval</i>	(Optional)
TABLE_enhhistory	(Optional) Show enhanced history information
<i>einterval</i>	(Optional)
<i>ebuckets</i>	(Optional)
TABLE_history-stats	(Optional) Show history statistics information
<i>lives</i>	(Optional)
<i>hsbuckets</i>	(Optional)
<i>filter</i>	(Optional)
show	
ip	
sla	Service Level Agreement (SLA)
configuration	IP SLAs Configuration
<i>entry-num</i>	(Optional) Entry Number

Command Mode

- /exec

show ip sla enhanced-history collection-statistics

```
show ip sla enhanced-history collection-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ <index> { TABLE_generic <outstring> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
collection-statistics	IP SLAs Collection Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

Command Mode

- /exec

show ip sla enhanced-history distribution-statistics

```
show ip sla enhanced-history distribution-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ <index> { TABLE_generic <outstring> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
distribution-statistics	IP SLAs Distribution Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

Command Mode

- /exec

show ip sla group schedule

```
show ip sla group schedule [ <group-operation-number> ] [ __readonly__ <entry-number> <probe-list>
<num-probes> <sched-period> <mode> <low-freq> <high-freq> <freq> <snmp-status> <next-start-time>
<life> <ageout> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
group	IP SLAs Group Scheduling/Configuration
schedule	Group Scheduling
<i>group-operation-number</i>	(Optional) Group Schedule Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>probe-list</i>	(Optional)
<i>num-probes</i>	(Optional)
<i>sched-period</i>	(Optional)
<i>mode</i>	(Optional)
<i>low-freq</i>	(Optional)
<i>high-freq</i>	(Optional)
<i>freq</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)

Command Mode

- /exec

show ip sla history

```
show ip sla history [ <operation-number> ] [ tabular | full | interval-statistics ] [ __readonly__ <index> {
TABLE_generic <outstring> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
history	IP SLAs History
<i>operation-number</i>	(Optional) Entry Number
tabular	(Optional) Compact Output
full	(Optional) Listed Output
interval-statistics	(Optional) Interval statistics output
__readonly__	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

Command Mode

- /exec

show ip sla reaction-configuration

```
show ip sla reaction-configuration [ <entry-num> ] [ __readonly__ <entry-number> <index> <reaction>
<threshold-type> <rising-value> <falling-value> <threshold-countX> <threshold-countY> <action-type>
<unconfigured> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction Configuration
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>index</i>	(Optional)
<i>reaction</i>	(Optional)
<i>threshold-type</i>	(Optional)
<i>rising-value</i>	(Optional)
<i>falling-value</i>	(Optional)
<i>threshold-countX</i>	(Optional)
<i>threshold-countY</i>	(Optional)
<i>action-type</i>	(Optional)
<i>unconfigured</i>	(Optional)

Command Mode

- /exec

show ip sla reaction-trigger

```
show ip sla reaction-trigger [ <entry-num> ] [ __readonly__ <entry-number> <target-entry> <snmp-status>
<operational-state> <unconfigured> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Reaction Trigger
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>target-entry</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>operational-state</i>	(Optional)
<i>unconfigured</i>	(Optional)

Command Mode

- /exec

show ip sla responder

```
show ip sla responder [ __readonly__ <gen-enabled> <rttMonApplResponder> <perm-enabled>
<ctrl-msg-count> <errors> { TABLE_recent <print-recent-hdr> <print-recent-err-hdr> <recent-addr>
<recent-time> <recent-error> } { TABLE_permanent <print-tcp-hdr> <print-udp-hdr> <address> <port> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
responder	IP SLAs Responder Information
<i>__readonly__</i>	(Optional)
<i>gen-enabled</i>	(Optional)
<i>rttMonApplResponder</i>	(Optional) rttMonApplResponder
<i>perm-enabled</i>	(Optional)
<i>ctrl-msg-count</i>	(Optional)
<i>errors</i>	(Optional)
TABLE_recent	(Optional) Show recent control message information
<i>print-recent-hdr</i>	(Optional)
<i>print-recent-err-hdr</i>	(Optional)
<i>recent-addr</i>	(Optional)
<i>recent-time</i>	(Optional)
<i>recent-error</i>	(Optional)
TABLE_permanent	(Optional) Show permanent port/address information
<i>print-tcp-hdr</i>	(Optional)
<i>print-udp-hdr</i>	(Optional)
<i>address</i>	(Optional)
<i>port</i>	(Optional)

Command Mode

- /exec

show ip sla statistics

```
show ip sla statistics [ aggregated ] [ <entry-num> ] [ details ] [ __readonly__ <index> { TABLE_common
<update-count> <latest-RTT> <latest-start-time> <latest-return-code> <micro-accuracy> <nano-accuracy>
} { TABLE_schedule <life-left> <oper-state> <reset-time> } { TABLE_jitter <operation-type> <ntp-sync-state>
<rtt-count> <rtt-min> <rtt-avg> <rtt-max> <lat-ow-samples> <sd-lat-sum> <sd-lat-sum2> <sd-lat-ow-min>
<sd-lat-ow-avg> <sd-lat-ow-max> <ds-lat-sum> <ds-lat-sum2> <ds-lat-ow-min> <ds-lat-ow-avg>
<ds-lat-ow-max> <sd-jitter-count> <ds-jitter-count> <sd-jitter-min> <sd-jitter-avg> <sd-jitter-max>
<sd-pos-jitter-min> <sd-pos-jitter-avg> <sd-pos-jitter-max> <sd-pos-jitter-num> <sd-pos-jitter-sum>
<sd-pos-jitter-sum2> <sd-neg-jitter-min> <sd-neg-jitter-avg> <sd-neg-jitter-max> <sd-neg-jitter-num>
<sd-neg-jitter-sum> <sd-neg-jitter-sum2> <ds-jitter-min> <ds-jitter-avg> <ds-jitter-max> <ds-pos-jitter-min>
<ds-pos-jitter-avg> <ds-pos-jitter-max> <ds-pos-jitter-num> <ds-pos-jitter-sum> <ds-pos-jitter-sum2>
<ds-neg-jitter-min> <ds-neg-jitter-avg> <ds-neg-jitter-max> <ds-neg-jitter-num> <ds-neg-jitter-sum>
<ds-neg-jitter-sum2> <pkt-unprocessed> <pkt-loss> <pkt-loss-per> <pkt-loss-min> <pkt-loss-max>
<pkt-loss-inter-min> <pkt-loss-inter-max> <pkt-loss-sd> <pkt-loss-sd-per> <pkt-loss-sd-min>
<pkt-loss-sd-max> <pkt-loss-sd-inter-min> <pkt-loss-sd-inter-max> <pkt-loss-ds> <pkt-loss-ds-per>
<pkt-loss-ds-min> <pkt-loss-ds-max> <pkt-loss-ds-inter-min> <pkt-loss-ds-inter-max> <pkt-oos> <pkt-oos-sd>
<pkt-oos-ds> <pkt-oos-both> <pkt-mia> <pkt-late> <pkt-skipped> <voice-icpif> <voice-mos> <inter-jitter-out>
<inter-jitter-in> <jitter-avg> } { TABLE_aggdetails <outstring> } <print_type> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
statistics	IP SLAs Statistics
<i>entry-num</i>	(Optional) Entry Number
details	(Optional) Detailed Output
aggregated	(Optional) IP SLAs Statistics Aggregated
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_common	(Optional) Show common statistics information
<i>update-count</i>	(Optional)
<i>latest-RTT</i>	(Optional)
<i>latest-start-time</i>	(Optional)
<i>latest-return-code</i>	(Optional)
<i>micro-accuracy</i>	(Optional)
<i>nano-accuracy</i>	(Optional)

TABLE_schedule	(Optional) Show schedule statistics information
<i>life-left</i>	(Optional)
<i>oper-state</i>	(Optional)
<i>reset-time</i>	(Optional)
TABLE_jitter	(Optional) Show jitter statistics information
<i>operation-type</i>	(Optional)
<i>ntp-sync-state</i>	(Optional)
<i>rtt-count</i>	(Optional)
<i>rtt-min</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>lat-ow-samples</i>	(Optional)
<i>sd-lat-sum</i>	(Optional)
<i>sd-lat-sum2</i>	(Optional)
<i>sd-lat-ow-min</i>	(Optional)
<i>sd-lat-ow-avg</i>	(Optional)
<i>sd-lat-ow-max</i>	(Optional)
<i>ds-lat-sum</i>	(Optional)
<i>ds-lat-sum2</i>	(Optional)
<i>ds-lat-ow-min</i>	(Optional)
<i>ds-lat-ow-avg</i>	(Optional)
<i>ds-lat-ow-max</i>	(Optional)
<i>sd-jitter-count</i>	(Optional)
<i>ds-jitter-count</i>	(Optional)
<i>sd-jitter-min</i>	(Optional)
<i>sd-jitter-avg</i>	(Optional)
<i>sd-jitter-max</i>	(Optional)
<i>sd-pos-jitter-min</i>	(Optional)
<i>sd-pos-jitter-avg</i>	(Optional)

<i>sd-pos-jitter-max</i>	(Optional)
<i>sd-pos-jitter-num</i>	(Optional)
<i>sd-pos-jitter-sum</i>	(Optional)
<i>sd-pos-jitter-sum2</i>	(Optional)
<i>sd-neg-jitter-min</i>	(Optional)
<i>sd-neg-jitter-avg</i>	(Optional)
<i>sd-neg-jitter-max</i>	(Optional)
<i>sd-neg-jitter-num</i>	(Optional)
<i>sd-neg-jitter-sum</i>	(Optional)
<i>sd-neg-jitter-sum2</i>	(Optional)
<i>ds-jitter-min</i>	(Optional)
<i>ds-jitter-avg</i>	(Optional)
<i>ds-jitter-max</i>	(Optional)
<i>ds-pos-jitter-min</i>	(Optional)
<i>ds-pos-jitter-avg</i>	(Optional)
<i>ds-pos-jitter-max</i>	(Optional)
<i>ds-pos-jitter-num</i>	(Optional)
<i>ds-pos-jitter-sum</i>	(Optional)
<i>ds-pos-jitter-sum2</i>	(Optional)
<i>ds-neg-jitter-min</i>	(Optional)
<i>ds-neg-jitter-avg</i>	(Optional)
<i>ds-neg-jitter-max</i>	(Optional)
<i>ds-neg-jitter-num</i>	(Optional)
<i>ds-neg-jitter-sum</i>	(Optional)
<i>ds-neg-jitter-sum2</i>	(Optional)
<i>pkt-unprocessed</i>	(Optional)
<i>pkt-loss</i>	(Optional)
<i>pkt-loss-per</i>	(Optional)
<i>pkt-loss-min</i>	(Optional)

<i>pkt-loss-max</i>	(Optional)
<i>pkt-loss-inter-min</i>	(Optional)
<i>pkt-loss-inter-max</i>	(Optional)
<i>pkt-loss-sd</i>	(Optional)
<i>pkt-loss-sd-per</i>	(Optional)
<i>pkt-loss-sd-min</i>	(Optional)
<i>pkt-loss-sd-max</i>	(Optional)
<i>pkt-loss-sd-inter-min</i>	(Optional)
<i>pkt-loss-sd-inter-max</i>	(Optional)
<i>pkt-loss-ds</i>	(Optional)
<i>pkt-loss-ds-per</i>	(Optional)
<i>pkt-loss-ds-min</i>	(Optional)
<i>pkt-loss-ds-max</i>	(Optional)
<i>pkt-loss-ds-inter-min</i>	(Optional)
<i>pkt-loss-ds-inter-max</i>	(Optional)
<i>pkt-oos</i>	(Optional)
<i>pkt-oos-sd</i>	(Optional)
<i>pkt-oos-ds</i>	(Optional)
<i>pkt-oos-both</i>	(Optional)
<i>pkt-mia</i>	(Optional)
<i>pkt-late</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>voice-icpif</i>	(Optional)
<i>voice-mos</i>	(Optional)
<i>inter-jitter-out</i>	(Optional)
<i>inter-jitter-in</i>	(Optional)
<i>jitter-avg</i>	(Optional)
TABLE_aggdetails	(Optional) Show aggregated statistics information
<i>outstring</i>	(Optional)

<i>print_type</i>	(Optional)
-------------------	------------

Command Mode

- /exec

show ip ssh source-interface

```
show ip ssh source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipsshvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipsshvrf	(Optional) source interface of ssh given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ssh source-interface vrf all

```
show ip ssh source-interface vrf all [ __readonly__ [ { TABLE_ipssh <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipssh	(Optional) source interface of ssh
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip static-route

```
show ip static-route [ multicast ] [ internal ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ <count> <unres-count> ] [ TABLE_vrf_all { <cntxt_name> <cntxt_id> [ TABLE_each_vrf
{ <prefix_addr_msk> <nhop_addr_msk> <nhop_vrf_info> <nhop_intr_info> <urib_stat> [ <seg_id> ] [
<tunnel_id> <urib_encap_type> ] <nhop_urib_stat> [ <track_obj_num> <track_obj_state> ] } ] ] [
TABLE_multicast <multicast> ] [ TABLE_track-table ] [ TABLE_route <prefix> <masklen> <nhop>
<nhop-masklen> <intf> <real-nhop> <iod> <pref> <tag> <unres> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
static-route	Display configured static routes
multicast	(Optional) Display only multicast routes
internal	(Optional) Display internal data structure info
track-table	(Optional) Display track object details associated with static routes
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf_all	(Optional)
<i>cntxt_name</i>	(Optional)
<i>cntxt_id</i>	(Optional)
TABLE_each_vrf	(Optional)
<i>prefix_addr_msk</i>	(Optional)
<i>nhop_addr_msk</i>	(Optional)
<i>nhop_vrf_info</i>	(Optional)
<i>nhop_intr_info</i>	(Optional)
<i>urib_stat</i>	(Optional)
<i>seg_id</i>	(Optional)
<i>tunnel_id</i>	(Optional)

<i>urib_encap_type</i>	(Optional)
<i>nhop_urib_stat</i>	(Optional)
<i>track_obj_num</i>	(Optional)
<i>track_obj_state</i>	(Optional)
TABLE_multicast	(Optional)
<i>multicast</i>	(Optional)
TABLE_track-table	(Optional)
TABLE_route	(Optional)
<i>prefix</i>	(Optional)
<i>masklen</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-masklen</i>	(Optional)
<i>intf</i>	(Optional)
<i>real-nhop</i>	(Optional)
<i>iod</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>unres</i>	(Optional)
<i>count</i>	(Optional)
<i>unres-count</i>	(Optional)

Command Mode

- /exec

show ip stats

show ip stats

Syntax Description

show	Show running system information
ip	Display IP information
stats	Display IP internal stats

Command Mode

- /exec

show ip telnet source-interface

```
show ip telnet source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_iptelnetvrf <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iptelnetvrf	(Optional) source interface of telnet given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip telnet source-interface vrf all

```
show ip telnet source-interface vrf all [ __readonly__ [ { TABLE 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__	(Optional)
TABLE iptelnet	(Optional) source interface of telnet
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface

```
show ip tftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrf	(Optional) source interface of tftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface vrf all

```
show ip tftp source-interface vrf all [ __readonly__ [ { TABLE iptftp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE iptftp	(Optional) source interface of tftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface

```
show ip traceroute source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_iptraceroutevrf <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iptraceroutevrf	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface vrf all

```
show ip traceroute source-interface vrf all [ __readonly__ [ { TABLE_iptraceroute <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptraceroute	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traffic

```
show ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_ip_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>
<inocet> <inhdrrer> <innoroutes> <inaddrerr> <innoproto> <intruncated> <inforw> <reasmoks> <reasmfails>
<reasmreqds> <indiscards> <indelivers> <outnoroutes> <outrqsts> <outforw> <outdiscards> <outfragreqds>
<outfragoks> <outfragfails> <outfragcreates> <outtxmts> <outocet> <inmcastpkts> <inmcastoctets>
<outmcastpkts> <outmcastoctets> <inbcastpkts> <outbcastpkts> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_ip_traffic	(Optional)
<i>rcvd</i>	(Optional)
<i>sent</i>	(Optional)
<i>consumed</i>	(Optional)
<i>fwd-ucast</i>	(Optional)
<i>fwd-mcast</i>	(Optional)
<i>fwd-label</i>	(Optional)
<i>opts-end</i>	(Optional)

<i>opts-nop</i>	(Optional)
<i>opts-bsec</i>	(Optional)
<i>opts-loosesrc-route</i>	(Optional)
<i>opts-timestamp</i>	(Optional)
<i>opts-esec</i>	(Optional)
<i>opts-record-route</i>	(Optional)
<i>opts-ump</i>	(Optional)
<i>opts-stid</i>	(Optional)
<i>opts-strsrc-route</i>	(Optional)
<i>opts-alert</i>	(Optional)
<i>opts-cipso</i>	(Optional)
<i>opts-other</i>	(Optional)
<i>bad-csum</i>	(Optional)
<i>too-small</i>	(Optional)
<i>bad-ver</i>	(Optional)
<i>bad-hlen</i>	(Optional)
<i>bad-len</i>	(Optional)
<i>bad-dest</i>	(Optional)
<i>bad-ttl</i>	(Optional)
<i>cant-fwd</i>	(Optional)
<i>out-drop</i>	(Optional)
<i>bad-encap</i>	(Optional)
<i>no-route</i>	(Optional)
<i>no-proto</i>	(Optional)
<i>bad-options</i>	(Optional)
<i>frag</i>	(Optional)
<i>fragmented</i>	(Optional)
<i>out-frag</i>	(Optional)
<i>frag-drop</i>	(Optional)

<i>cant-frag</i>	(Optional)
<i>reasm</i>	(Optional)
<i>frag-to</i>	(Optional)
<i>tx-redirect</i>	(Optional)
<i>tx-unreach</i>	(Optional)
<i>tx-echo-req</i>	(Optional)
<i>tx-echo-reply</i>	(Optional)
<i>tx-mask-req</i>	(Optional)
<i>tx-mask-rep</i>	(Optional)
<i>tx-info-req</i>	(Optional)
<i>tx-info-reply</i>	(Optional)
<i>tx-param-prob</i>	(Optional)
<i>tx-source-quench</i>	(Optional)
<i>tx-tstamp-req</i>	(Optional)
<i>tx-tstamp-reply</i>	(Optional)
<i>tx-time-exceeded</i>	(Optional)
<i>tx-router-solicit</i>	(Optional)
<i>tx-router-advert</i>	(Optional)
<i>rx-redirect</i>	(Optional)
<i>rx-unreach</i>	(Optional)
<i>rx-echo-req</i>	(Optional)
<i>rx-echo-reply</i>	(Optional)
<i>rx-mask-req</i>	(Optional)
<i>rx-mask-rep</i>	(Optional)
<i>rx-info-req</i>	(Optional)
<i>rx-info-reply</i>	(Optional)
<i>rx-param-prob</i>	(Optional)
<i>rx-source-quench</i>	(Optional)
<i>rx-tstamp-req</i>	(Optional)

<i>rx-tstamp-reply</i>	(Optional)
<i>rx-time-exceeded</i>	(Optional)
<i>rx-router-solicit</i>	(Optional)
<i>rx-router-advert</i>	(Optional)
<i>rx-format-errors</i>	(Optional)
<i>rx-csum-errors</i>	(Optional)
<i>inrcv</i>	(Optional)
<i>inoctet</i>	(Optional)
<i>inhderr</i>	(Optional)
<i>innoroutes</i>	(Optional)
<i>inaddrerr</i>	(Optional)
<i>innoproto</i>	(Optional)
<i>intruncated</i>	(Optional)
<i>inforw</i>	(Optional)
<i>reasmoks</i>	(Optional)
<i>reasmfails</i>	(Optional)
<i>reasmreqds</i>	(Optional)
<i>indiscards</i>	(Optional)
<i>indelivers</i>	(Optional)
<i>outnoroutes</i>	(Optional)
<i>outrqsts</i>	(Optional)
<i>outforw</i>	(Optional)
<i>outdiscards</i>	(Optional)
<i>outfragreqds</i>	(Optional)
<i>outfragoks</i>	(Optional)
<i>outfragfails</i>	(Optional)
<i>outfragcreates</i>	(Optional)
<i>outxmts</i>	(Optional)
<i>outoctet</i>	(Optional)

<i>inmcastpkts</i>	(Optional)
<i>inmcastoctets</i>	(Optional)
<i>outmcastpkts</i>	(Optional)
<i>outmcastoctets</i>	(Optional)
<i>inbdcastpkts</i>	(Optional)
<i>outbdcastpkts</i>	(Optional)

Command Mode

- /exec

show ip txlist list

```
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 Mode

- /exec

show ip verify source

```
show ip verify source [ interface <intf6> ] [ __readonly__ TABLE_verify_entry <verify_intf>
<verify_intf_ipsg_val> <verify_ipsg_enable_intf> <verify_hdr> <verify_filter_mode> <verify_ip_addr>
<verify_mac_addr> <verify_vlan> <verify_ipsg_exclude_vlans> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
verify	Verify IPSG information
source	IPSG source
interface	(Optional) Interface
<i>verify_intf_ipsg_val</i>	(Optional) IP source guard value (enabled or disable)
<i>verify_ipsg_enable_intf</i>	(Optional) IP source guard enabled interfaces names
<i>intf6</i>	(Optional)
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_verify_entry</i>	(Optional)
<i>verify_filter_mode</i>	(Optional)
<i>verify_intf</i>	(Optional)
<i>verify_hdr</i>	(Optional)
<i>verify_ip_addr</i>	(Optional)
<i>verify_mac_addr</i>	(Optional)
<i>verify_vlan</i>	(Optional)
<i>verify_ipsg_exclude_vlans</i>	(Optional)

Command Mode

- /exec

<i>global_punt_pkt_cnt</i>	(Optional)
<i>global_punt_byte_cnt</i>	(Optional)
<i>global_glean_pkt_cnt</i>	(Optional)
<i>global_glean_byte_cnt</i>	(Optional)
<i>glean_pkt_cnt</i>	(Optional)
<i>glean_byte_cnt</i>	(Optional)
<i>normal_pkt_cnt</i>	(Optional)
<i>normal_byte_cnt</i>	(Optional)
<i>last_updated</i>	(Optional)
<i>count-static</i>	(Optional)
<i>count-dynamic</i>	(Optional)
<i>count-others</i>	(Optional)
<i>count-throttle</i>	(Optional)
<i>count-total</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
<i>count</i>	(Optional)
TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>mac</i>	(Optional)
<i>pref</i>	(Optional)
<i>owner</i>	(Optional)
<i>pkt-count</i>	(Optional)
<i>byte-count</i>	(Optional)
<i>is-best</i>	(Optional)
<i>is-thrtld</i>	(Optional)

Command Mode

- /exec

show ipv6 amt tunnel

```
show ipv6 amt tunnel [ <address6> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc6> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

Syntax Description

show	Show running system information
amt	AMT show commands
ipv6	Display IPv6 information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc6</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)
<i>group</i>	(Optional)

<i>rexp</i>	(Optional)
-------------	------------

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
<ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
longer-prefixes	(Optional) Display route and more specific routes

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } { route-map { <rmap-name> | <rmap-name> } | prefix-list { <prfxlist-name> |
<test_pol_name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list { <commlist-name> |
<test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } [ exact-match ] }
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
<i>commlist-name</i>	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] {
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	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv6	Display BGP information for IPv6 address family
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Mode

- /exec

show ipv6 bgp community

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
community { <regex-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv6	Display BGP information for IPv6 address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
community	Display routes matching the BGP communities
<i>regex-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp dampening

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
dampening { dampened-paths [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> ] | parameters |
flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
parameters	Display dampening parameters
dampened-paths	Display all dampened paths
history-paths	Display all history paths
flap-statistics	Display flap statistics for routes
ipv6	Display BGP information for IPv6 address family
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

Command Mode

- /exec

show ipv6 bgp extcommunity

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
extcommunity { <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regex-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ipv6 bgp flap-statistics

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
flap-statistics [ <ipv6-prefix> ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp neighbors

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | paths | received-routes | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
neighbors	Display all configured BGP neighbors
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
ipv6	Display BGP information for IPv6 address family
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

- /exec

show ipv6 bgp nexthop-database

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp nexthop

```
show ipv6 { bgp | mbgp } nexthop <ipv6nexthop>
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
nexthop	Display routes matching the nexthop

Command Mode

- /exec

show ipv6 bgp received-paths

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
private	(Optional) private

Command Mode

- /exec

show ipv6 bgp regexp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] regexp
<regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

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

Command Mode

- /exec

show ipv6 bgp summary

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
summary	Display summarized information of BGP state
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 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	(Optional) Display only interfaces that are administratively enabled
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ipv6 client

```
show ipv6 client [ <client-name> ] [ __readonly__ { TABLE_ipv6_client { <cli-name> <cli-stat> <cli-pid>
<cli-ext-pid> [ <protocol> ] <pib-index> <cli-uuid> <rou-vrf> <rou-flg> <ctrl-sap> <data-sap> <ipc-ctrl-mq>
<ipc-ctrl-fail> <ipc-data-mq> <ipc-data-fail> [ <if-ext-ind> ] [ <recv-fn> <recv-hex> ] } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
client	Display clients registered with the IPv6 process
<i>client-name</i>	(Optional) Display information for a single IPv6 client
<i>__readonly__</i>	(Optional)
TABLE_ipv6_client	(Optional)
<i>cli-name</i>	(Optional)
<i>cli-stat</i>	(Optional)
<i>cli-pid</i>	(Optional)
<i>cli-ext-pid</i>	(Optional)
<i>protocol</i>	(Optional)
<i>pib-index</i>	(Optional)
<i>cli-uuid</i>	(Optional)
<i>rou-vrf</i>	(Optional)
<i>rou-flg</i>	(Optional)
<i>ctrl-sap</i>	(Optional)
<i>data-sap</i>	(Optional)
<i>ipc-ctrl-mq</i>	(Optional)
<i>ipc-ctrl-fail</i>	(Optional)
<i>ipc-data-mq</i>	(Optional)
<i>ipc-data-fail</i>	(Optional)
<i>if-ext-ind</i>	(Optional)
<i>recv-fn</i>	(Optional)
<i>recv-hex</i>	(Optional)

Command Mode

- /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	(Optional) DHCPv6 relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional)
<i>relay_vpn_enable</i>	(Optional)
<i>relay_cisco_option_enable</i>	(Optional)
<i>gbl_src_intf</i>	(Optional) interface name
<i>interface-name</i>	(Optional) interface name
<i>intf_src_intf</i>	(Optional) interface name
<i>intf_header</i>	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>dst_intf</i>	(Optional) interface name

Command Mode

- /exec

show ipv6 dhcp relay statistics

```
show ipv6 dhcp relay statistics [ interface <intf> [ [ server-ip <ip-addr-val> [ use-vrf <vrf-name> ] [ interface
<dest-interface> ] ] ] [ server-ip <ip-addr-val> [ interface <dest-interface> ] [ use-vrf <vrf-name> ] ] ] [
__readonly__ <msg_stats_hdr> <msg_type_str> <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_server_direct_reply> <drop_no_ipv6_addr>
<drop_intf_error> <drop_vpn_disabled> <drop_ipv6_extn_hdrs_presence> <drop_mct_drop> ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show information about DHCPv6
relay	DHCPv6 Relay
statistics	Statistics related to DHCPv6
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the server address
<i>dest-interface</i>	(Optional) Destination interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>msg_type_str</i>	(Optional)
<i>tx_pkts</i>	(Optional)
<i>rx_pkts</i>	(Optional)
<i>drops</i>	(Optional)
<i>msg_type_str_total</i>	(Optional)
<i>server_stats_hdr</i>	(Optional)
<i>server_helper_addr</i>	(Optional)
<i>server_vrf</i>	(Optional)

<i>server_intf</i>	(Optional) interface name
<i>server_requests</i>	(Optional)
<i>server_responses</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_max_hops</i>	(Optional)
<i>drop_validation_fails</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_bad_context</i>	(Optional)
<i>drop_opt_insert_fail</i>	(Optional)
<i>drop_server_direct_reply</i>	(Optional)
<i>drop_no_ipv6_addr</i>	(Optional)
<i>drop_intf_error</i>	(Optional)
<i>drop_vpn_disabled</i>	(Optional)
<i>drop_ipv6_extn_hdrs_presence</i>	(Optional)
<i>drop_mct_drop</i>	(Optional)

Command Mode

- /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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	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)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
__readonly__	(Optional)
TABLE_asn	(Optional)

<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_rmap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ipv6 fragments

```
show ipv6 fragments [ <source-addr> ] [ __readonly__ [ TABLE_ipv6_frag [ TABLE_ipv6_each_q {
<ipv6-src> <ipv6-dest> <frag-id> <frag-off> <m-flag> <nxt-header> <pay-load> <expires> } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
fragments	Display queued fragments
__readonly__	(Optional)
TABLE_ipv6_frag	(Optional)
TABLE_ipv6_each_q	(Optional)
<i>frag-id</i>	(Optional)
<i>frag-off</i>	(Optional)
<i>m-flag</i>	(Optional)
<i>nxt-header</i>	(Optional)
<i>pay-load</i>	(Optional)
<i>expires</i>	(Optional)

Command Mode

- /exec

- /exec

show ipv6 icmp global traffic

```
show ipv6 { icmp | nd } global traffic [ __readonly__ { TABLE_icmpv6_global_stat <st-total> <rv-total>
<st-err> <rv-err> <st-int-drp-cnt> <rv-int-drp-cnt> <st-adj-nt-recov-am-ha> <rv-adj-nt-recov-am-ha>
<st-pkt-allow-inv-ttl-vpc> <rv-pkt-allow-inv-ttl-vpc> <st-drp-src-mac-own> <rv-drp-src-mac-own>
<st-drp-tgt-ip-not-own> <rv-drp-tgt-ip-not-own> <st-drp-src-ip-not-own> <rv-drp-src-ip-not-own>
<st-dest-unreach> <rv-dest-unreach> <st-admin-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__	(Optional)
TABLE_icmpv6_global_stat	(Optional)
<i>st-total</i>	(Optional)
<i>rv-total</i>	(Optional)
<i>st-err</i>	(Optional)
<i>rv-err</i>	(Optional)
<i>st-int-drp-cnt</i>	(Optional)
<i>rv-int-drp-cnt</i>	(Optional)
<i>st-adj-nt-recov-am-ha</i>	(Optional)
<i>rv-adj-nt-recov-am-ha</i>	(Optional)
<i>st-pkt-allow-inv-ttl-vpc</i>	(Optional)
<i>rv-pkt-allow-inv-ttl-vpc</i>	(Optional)
<i>st-drp-src-mac-own</i>	(Optional)

<i>rv-drp-src-mac-own</i>	(Optional)
<i>st-drp-tgt-ip-not-own</i>	(Optional)
<i>rv-drp-tgt-ip-not-own</i>	(Optional)
<i>st-drp-src-ip-not-own</i>	(Optional)
<i>rv-drp-src-ip-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohib</i>	(Optional)
<i>rv-admin-prohib</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-para-pbms</i>	(Optional)
<i>rv-para-pbms</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-redirect</i>	(Optional)
<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

<i>fast-path-pkts</i>	(Optional)
<i>fastpath-disable</i>	(Optional)
<i>other-path</i>	(Optional)
<i>dup-rtr-ra-recvd</i>	(Optional)
<i>rv-dup-rtr-ra-recvd</i>	(Optional)
TABLE_icmpv6_mld_stat	(Optional)
<i>st-v1-queries</i>	(Optional)
<i>rv-v1-queries</i>	(Optional)
<i>st-v2-queries</i>	(Optional)
<i>rv-v2-queries</i>	(Optional)
<i>st-v1-reports</i>	(Optional)
<i>rv-v1-reports</i>	(Optional)
<i>st-v2-reports</i>	(Optional)
<i>rv-v2-reports</i>	(Optional)
<i>st-v1-leaves</i>	(Optional)
<i>rv-v1-leaves</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp interface

```
{ show ipv6 { icmp | nd } interface [ <interface> ] { [ prefix [ full ] ] | [ route ] | [ detail ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface [ brief ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface <interface> } [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_intf <intf-name> <proto-state> <link-state> <admin-state> <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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
nd	Display Neighbor Discovery interface information
mld	Display Multicast Listener Discovery information
interface	Display ICMPv6 related interface information
prefix	(Optional) Display List of ICMPv6 RA prefix
route	(Optional) Display List of ICMPv6 RA routes
full	(Optional) Display Complete prefix information
detail	(Optional) Display ICMPv6 related interface information in detail

<i>brief</i>	(Optional) Display ICMPv6 related interface information in brief
<i>interface</i>	(Optional) Interface name to show
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_intf</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>icmpv6-disabled</i>	(Optional)
<i>last-ns-sent</i>	(Optional)
<i>last-na-sent</i>	(Optional)
<i>last-ra-sent</i>	(Optional)
<i>next-na-sent</i>	(Optional)
<i>ra-min-interval</i>	(Optional)
<i>ra-interval</i>	(Optional)
<i>set-m-flag</i>	(Optional)
<i>set-o-flag</i>	(Optional)
<i>current-hop-limit</i>	(Optional)
<i>mtu</i>	(Optional)
<i>router-lifetime</i>	(Optional)
<i>reachable-time</i>	(Optional)
<i>retrans-timer</i>	(Optional)
<i>ns-interval</i>	(Optional)
<i>send-redirect</i>	(Optional)
<i>send-unreachables</i>	(Optional)
<i>mld-disabled</i>	(Optional)
<i>mld-entry-count</i>	(Optional)

<i>mld-config-version</i>	(Optional)
<i>mld-querier-version</i>	(Optional)
<i>mld-host-version</i>	(Optional)
<i>mld-query-timer</i>	(Optional)
<i>mld-querier-expiry</i>	(Optional)
<i>mld-qi</i>	(Optional)
<i>mld-config-qi</i>	(Optional)
<i>mld-query-mrt</i>	(Optional)
<i>mld-config-query-mrt</i>	(Optional)
<i>mld-startup-qi</i>	(Optional)
<i>mld-config-startup-qi</i>	(Optional)
<i>mld-startup-qc</i>	(Optional)
<i>mld-config-last-member-mrt</i>	(Optional)
<i>mld-last-member-qc</i>	(Optional)
<i>mld-group-timeout</i>	(Optional)
<i>mld-config-group-timeout</i>	(Optional)
<i>mld-querier-timeout</i>	(Optional)
<i>mld-config-querier-timeout</i>	(Optional)
<i>mld-config-unsol-rpt-interval</i>	(Optional)
<i>mld-qrv</i>	(Optional)
<i>mld-config-robustness-variable</i>	(Optional)
<i>mld-config-rpt-link-local</i>	(Optional)
<i>mld-refcount</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)
<i>ra-sent</i>	(Optional)
<i>ra-rec</i>	(Optional)
<i>rs-sent</i>	(Optional)
<i>rs-rec</i>	(Optional)

<i>na-sent</i>	(Optional)
<i>na-rec</i>	(Optional)
<i>ns-sent</i>	(Optional)
<i>ns-rec</i>	(Optional)
<i>redirect-sent</i>	(Optional)
<i>redirect-rec</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-rec</i>	(Optional)
<i>errors-sent</i>	(Optional)
<i>erros-rec</i>	(Optional)
<i>ifdown-sent</i>	(Optional)
<i>ifdown-rec</i>	(Optional)
<i>am-ha-not-ready</i>	(Optional)
<i>allow-mct-ttl</i>	(Optional)
<i>our-own-mac</i>	(Optional)
<i>tgt-not-us</i>	(Optional)
<i>dest-unreachs-sent</i>	(Optional)
<i>dest-unreachs-rec</i>	(Optional)
<i>admin-prohibs-sent</i>	(Optional)
<i>admin-prohibs-rec</i>	(Optional)
<i>time-excds-sent</i>	(Optional)
<i>time-excds-rec</i>	(Optional)
<i>parm-problems-sent</i>	(Optional)
<i>parm-problems-rec</i>	(Optional)
<i>echos-sent</i>	(Optional)
<i>echos-rec</i>	(Optional)
<i>echo-replies-sent</i>	(Optional)
<i>echo-replies-rec</i>	(Optional)
<i>pkt-toobigs-sent</i>	(Optional)

<i>pkt-toobigs-rec</i>	(Optional)
<i>fastpath-pkt-recv</i>	(Optional)
<i>fastpath-disable-pkt-recv</i>	(Optional)
<i>fastpath-ignore-pkt-recv</i>	(Optional)
<i>v1-queries-sent</i>	(Optional)
<i>v1-queries-rec</i>	(Optional)
<i>v2-queries-sent</i>	(Optional)
<i>v2-queries-rec</i>	(Optional)
<i>v1-reports-sent</i>	(Optional)
<i>v1-reports-rec</i>	(Optional)
<i>v2-reports-sent</i>	(Optional)
<i>v2-reports-rec</i>	(Optional)
<i>v1-leaves-sent</i>	(Optional)
<i>v1-leaves-rec</i>	(Optional)
<i>v2-leaves-sent</i>	(Optional)
<i>v2-leaves-rec</i>	(Optional)
<i>uptime</i>	(Optional)
<i>mld-config-il</i>	(Optional)

Command Mode

- /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	Displays ipv6 neighbor by looking at the top level pt

Command Mode

- /exec

show ipv6 icmp off-list

```
show ipv6 icmp off-list [ vlan <vlan-id> ] [ __readonly__ [ <vlan-adj-cnt> ] [ <icmpv6-sync-adj-cnt> ] {
TABLE_icmpv6_vlan_list <adj-vlan-id> <off-adj-ip-addr> <icmpv6-time-stamp> <icmpv6-mac-addr>
<off-adj-flags> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
off-list	Show adjacencies in off-list icmpv6 database
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>vlan-adj-cnt</i>	(Optional)
<i>icmpv6-sync-adj-cnt</i>	(Optional)
TABLE_icmpv6_vlan_list	(Optional)
<i>adj-vlan-id</i>	(Optional)
<i>icmpv6-time-stamp</i>	(Optional)
<i>icmpv6-mac-addr</i>	(Optional)
<i>off-adj-flags</i>	(Optional)

Command Mode

- /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 Mode

- /exec

TABLE_glo_vrf	(Optional)
<i>group-id</i>	(Optional)
<i>protocol-vrf</i>	(Optional)
<i>cli-uuid</i>	(Optional)
<i>vaddr-action</i>	(Optional)
<i>vrf-interface</i>	(Optional)
<i>vaddr-mac</i>	(Optional)
<i>cxt-name</i>	(Optional)
<i>cxt-id</i>	(Optional)
TABLE_one_int	(Optional)
<i>lcache-inter</i>	(Optional)
<i>cxt-name-int</i>	(Optional)
<i>cxt_id-int</i>	(Optional)
<i>grp-id</i>	(Optional)
<i>protocol-one-int</i>	(Optional)
<i>client-uuid</i>	(Optional)
<i>client-state-act</i>	(Optional)
<i>client-in-use</i>	(Optional)
TABLE_vip_list	(Optional)
<i>virt-mac</i>	(Optional)
<i>cxt_name</i>	(Optional)
<i>cxt_id</i>	(Optional)
<i>last-solocit-st</i>	(Optional)
<i>last-nei-ad-st</i>	(Optional)
<i>last-rtr-adv-st</i>	(Optional)
<i>nxt-rtr-ad-st</i>	(Optional)
<i>vmac-addr</i>	(Optional)
<i>st-total</i>	(Optional)
<i>rv-total</i>	(Optional)

<i>st-err</i>	(Optional)
<i>rv-err</i>	(Optional)
<i>st-int-dwn-drp</i>	(Optional)
<i>rv-int-dwn-drp</i>	(Optional)
<i>st-adj-nt-recov-am</i>	(Optional)
<i>rv-adj-nt-recov-am</i>	(Optional)
<i>st-pkt-allow-inv-ttl</i>	(Optional)
<i>rv-pkt-allow-inv-ttl</i>	(Optional)
<i>st-pkt-drp-src-mac-own</i>	(Optional)
<i>rv-pkt-drp-src-mac-own</i>	(Optional)
<i>st-pkt-drp-tgt-not-own</i>	(Optional)
<i>rv-pkt-drp-tgt-not-own</i>	(Optional)
<i>st-pkt-drp-src-not-own</i>	(Optional)
<i>rv-pkt-drp-src-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohi</i>	(Optional)
<i>rv-admin-prohi</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-patr-pbm</i>	(Optional)
<i>rv-patr-pbm</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-dup-ra</i>	(Optional)
<i>rv-dup-ra</i>	(Optional)
<i>st-redirect</i>	(Optional)

<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp vpc-statistics

```
show ipv6 icmp vpc-statistics [ __readonly__ { TABLE_icmpv6_vpc_stats [ <icmpv6-pro-drp-pull-disable>
] [ <icmpv6-pro-drp-push-msg-disable> ] [ <icmpv6-pro-ign-snd-pull-disabe> ] [
<icmpv6-ign-snd-push-disable> ] [ <icmpv6-drp-im-fail> ] [ <icmpv6-drp-mcecm-fail> ] [
<icmpv6-drp-invalid-pc-iod> ] [ <icmpv6-drp-pt-lookup-fail> ] [ <icmpv6-drp-resp-fail-no-mct> ] [
<icmpv6-drp-resp-fail> ] [ <icmpv6-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-vip6add> ] [ <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__	(Optional)
TABLE_icmpv6_vpc_stats	(Optional) icmpv6 Vpc statistics
<i>icmpv6-pro-drp-pull-disable</i>	(Optional)
<i>icmpv6-pro-drp-push-msg-disable</i>	(Optional)
<i>icmpv6-pro-ign-snd-pull-disabe</i>	(Optional)
<i>icmpv6-ign-snd-push-disable</i>	(Optional)
<i>icmpv6-drp-im-fail</i>	(Optional)
<i>icmpv6-drp-mcecm-fail</i>	(Optional)
<i>icmpv6-drp-invalid-pc-iod</i>	(Optional)
<i>icmpv6-drp-pt-lookup-fail</i>	(Optional)
<i>icmpv6-drp-resp-fail-no-mct</i>	(Optional)
<i>icmpv6-drp-resp-fail</i>	(Optional)
<i>icmpv6-resp-sent</i>	(Optional)

<i>icmpv6-resp-recvd</i>	(Optional)
<i>icmpv6-resp-recv-err</i>	(Optional)
<i>icmpv6-rcvd-msg</i>	(Optional)
<i>icmpv6-send-fail</i>	(Optional)
<i>icmpv6-cfs-rel-dlvry-fail</i>	(Optional)
<i>icmpv6-cfs-rel-dnvry-suc</i>	(Optional)
<i>icmpv6-drp-pt-add-fail</i>	(Optional)
<i>icmpv6-drp-no-mem</i>	(Optional)
<i>icmpv6-drp-tmr-cre-fail</i>	(Optional)
<i>icmpv6-drp-add-adj-fail</i>	(Optional)
<i>icmpv6-off-drp-pt-lookup-fail</i>	(Optional)
<i>icmpv6-dont-drp-vlan-mismat</i>	(Optional)
<i>icmpv6-drp-svi-invalid</i>	(Optional)
<i>icmpv6-dont-drop-sv-down</i>	(Optional)
<i>icmpv6-drp-mct-down</i>	(Optional)
<i>icmpv6-drp-ctxt-invalid</i>	(Optional)
<i>icmpv6-drp-vrf-invalid</i>	(Optional)
<i>icmpv6-drp-l3addr-invalid</i>	(Optional)
<i>icmpv6-drp-l3addr-sanity-fail</i>	(Optional)
<i>icmpv6-drp-mac-sanity-fail</i>	(Optional)
<i>icmpv6-own-rtr-mac</i>	(Optional)
<i>icmpv6-drp-own-ipv6addr</i>	(Optional)
<i>icmpv6-drp-own-vipv6add</i>	(Optional)
<i>icmpv6-drp-adj-fail</i>	(Optional)
<i>icmpv6-drp-subnet-mismatch</i>	(Optional)
<i>icmpv6-drp-adj-exist</i>	(Optional)
<i>icmpv6-dont-drp-ip-not-enable</i>	(Optional)
<i>icmpv6-drp-total-cnt</i>	(Optional)
<i>icmpv6-dont-drop-total-cnt</i>	(Optional)

<i>icmpv6-add-adj</i>	(Optional)
<i>icmpv6-del-adj</i>	(Optional)
<i>icmpv6-adj-already-exist</i>	(Optional)

Command Mode

- /exec

show ipv6 interface

```
show ipv6 interface { [ brief [ include-secondary ] | [ <interface> | <ipv6-addr> ] [ detail ] ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ TABLE_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> ] [ <acl-in> ] [ <acl-out> ] [
<upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ]
] [ <mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-fwd> ] [ <mbyte-orig> ] [ <mbyte-consumed>
] [ <upkt-in-acc> ] [ <upkt-in-rej> ] [ <ubyte-in-acc> ] [ <ubyte-in-rej> ] [ <mpkt-in-acc> ] [ <mpkt-in-rej>
] [ <mbyte-in-acc> ] [ <mbyte-in-rej> ] [ <upkt-out-acc> ] [ <upkt-out-rej> ] [ <ubyte-out-acc> ] [
<ubyte-out-rej> ] [ <mpkt-out-acc> ] [ <mpkt-out-rej> ] [ <mbyte-out-acc> ] [ <mbyte-out-rej> ] [
<hw-upkt-sent> ] [ <hw-upkt-recv> ] [ <hw-ubyte-sent> ] [ <hw-ubyte-recv> ] [ <hw-mpkt-sent> ] [
<hw-mpkt-recv> ] [ <hw-mbyte-sent> ] [ <hw-mbyte-recv> ] [ <hw-upkt-drop> ] [ <hw-ubyte-drop> ] [
<hw-mpkt-drop> ] [ <hw-mbyte-drop> ] [ <hw-mpkt-rpdrop> ] [ <hw-mbyte-rpdrop> ] [ <hw-mpkt-dfdrops> ] [
<hw-mbyte-dfdrops> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
brief	(Optional) Display summary of IPv6 status and configuration
include-secondary	(Optional) Display summary of all IPv6 addresses
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed IPv6 interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>iod</i>	(Optional)
<i>prefix</i>	(Optional)
TABLE_sec_addr	(Optional)
<i>sec-prefix</i>	(Optional)
<i>linklocal-configured</i>	(Optional)
<i>ipv6-disabled</i>	(Optional)
<i>mrouting-enabled</i>	(Optional)
<i>mgroup-locally-joined</i>	(Optional)
TABLE_maddr	(Optional)
<i>m-addr-refcnt</i>	(Optional)
TABLE_sg	(Optional)
<i>sg-refcnt</i>	(Optional)
<i>mtu</i>	(Optional)
<i>global-in-pcl-configured</i>	(Optional)
<i>global-in-pcl-name</i>	(Optional)
<i>global-in-pcl-pending</i>	(Optional)
<i>global-out-pcl-configured</i>	(Optional)
<i>global-out-pcl-name</i>	(Optional)
<i>global-out-pcl-pending</i>	(Optional)
<i>in-pcl-configured</i>	(Optional)
<i>in-pcl-name</i>	(Optional)
<i>in-pcl-pending</i>	(Optional)
<i>out-pcl-configured</i>	(Optional)
<i>out-pcl-name</i>	(Optional)
<i>out-pcl-pending</i>	(Optional)

<i>urpf-mode</i>	(Optional)
<i>ipv6-lstype</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>upkt-in-acc</i>	(Optional)
<i>upkt-in-rej</i>	(Optional)
<i>ubyte-in-acc</i>	(Optional)
<i>ubyte-in-rej</i>	(Optional)
<i>mpkt-in-acc</i>	(Optional)
<i>mpkt-in-rej</i>	(Optional)
<i>mbyte-in-acc</i>	(Optional)
<i>mbyte-in-rej</i>	(Optional)
<i>upkt-out-acc</i>	(Optional)
<i>upkt-out-rej</i>	(Optional)
<i>ubyte-out-acc</i>	(Optional)
<i>ubyte-out-rej</i>	(Optional)

<i>mpkt-out-acc</i>	(Optional)
<i>mpkt-out-rej</i>	(Optional)
<i>mbyte-out-acc</i>	(Optional)
<i>mbyte-out-rej</i>	(Optional)
<i>hw-upkt-sent</i>	(Optional)
<i>hw-upkt-recv</i>	(Optional)
<i>hw-ubyte-sent</i>	(Optional)
<i>hw-ubyte-recv</i>	(Optional)
<i>hw-mpkt-sent</i>	(Optional)
<i>hw-mpkt-recv</i>	(Optional)
<i>hw-mbyte-sent</i>	(Optional)
<i>hw-mbyte-recv</i>	(Optional)
<i>hw-upkt-drop</i>	(Optional)
<i>hw-ubyte-drop</i>	(Optional)
<i>hw-mpkt-drop</i>	(Optional)
<i>hw-mbyte-drop</i>	(Optional)
<i>hw-mpkt-rpdrop</i>	(Optional)
<i>hw-mbyte-rpdrop</i>	(Optional)
<i>hw-mpkt-dfdrop</i>	(Optional)
<i>hw-mbyte-dfdrop</i>	(Optional)

Command Mode

- /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 Mode

- /exec

show ipv6 lisp data-cache

```
show ipv6 lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IPv6 destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ipv6 local-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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs

Command Mode

- /exec

show ipv6 local policy

```
show ipv6 local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local	IPv6 local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ipv6 mld groups

```
show ipv6 [ icmp ] mld groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <entry-count>
TABLE_group <group-out> TABLE_intf <intf-name> <icmpv6-disabled> <mld-source> <mld-group>
<mld-source-unspec> <mld-static> <mld-local-group> <mld-translated> <mld-uptime> <mld-expire> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
groups	Display MLD attached group membership information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on interface name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>entry-count</i>	(Optional)
TABLE_group	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>icmpv6-disabled</i>	(Optional)
<i>mld-source-unspec</i>	(Optional)
<i>mld-static</i>	(Optional)
<i>mld-local-group</i>	(Optional)
<i>mld-translated</i>	(Optional)
<i>mld-uptime</i>	(Optional)

<i>mld-expire</i>	(Optional)
-------------------	------------

Command Mode

- /exec

show ipv6 mld local-groups

```
show ipv6 [ icmp ] mld local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf> { TABLE_entry <group-addr> <source-addr> <static-oif> <local-group>
<if-name> <last-reported> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
local-groups	Display MLD local group membership information
<i>interface</i>	(Optional) Display group membership on interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_entry	(Optional)
<i>static-oif</i>	(Optional)
<i>local-group</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-reported</i>	(Optional)

Command Mode

- /exec

show ipv6 mld vrf all

```
show ipv6 [ icmp ] mld vrf all
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
vrf	Display per-VRF information
all	Display MLD VRFs

Command Mode

- /exec

show ipv6 mroute

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

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) Multicast VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IPv6 multicast routing table
summary	(Optional) Display route counts and packet rates
software-forwarded	(Optional) Display software switched route counts only
rp	(Optional) Display RP routes (RP, 0.0.0.0/32)
count	(Optional) Display route counts only
bitfield	(Optional) Display bitfield details
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_addr	(Optional)
<i>mcast-addr</i>	(Optional)
<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>uptime</i>	(Optional)

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

<i>bit-rate-in-bps</i>	(Optional)
<i>oifs</i>	(Optional)
<i>software-pkts</i>	(Optional)

Command Mode

- /exec

show ipv6 mtu

```
show ipv6 mtu [ statistics | vrf { <vrf-name> | <vrf-known-name> | all [ detail ] } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPV6 information
mtu	Display IPV6 Path MTU Cache
statistics	(Optional) Display non-TCP Path MTU Statistics
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display IPV6 Path MTU Cache with detail

Command Mode

- /exec

show ipv6 multicast vrf

```
show ipv6 multicast vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <vrf-count> { TABLE_vrf
<vrf-name> <cid> <tid> <rc> <gc> <sc> <star_gc> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
multicast	Display multicast routing VRFs
vrf	Display multicast routing VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-count</i>	(Optional)
<i>cid</i>	(Optional)
<i>tid</i>	(Optional)
<i>rc</i>	(Optional)
<i>gc</i>	(Optional)
<i>sc</i>	(Optional)
<i>star_gc</i>	(Optional)

Command Mode

- /exec

show ipv6 nd ra dns search-list

```
show ipv6 nd ra dns search-list [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <list_no> <list_name> [ { <finite> | <infinite> } ] <seq_no> } ]
} ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
interface	(Optional) Display DNS Search List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>dns_supress_server_list</i>	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
<i>list_no</i>	(Optional) Search list number
<i>list_name</i>	(Optional) Search list name
<i>finite</i>	(Optional) Search list life time
<i>infinite</i>	(Optional) Search list infinte time
<i>seq_no</i>	(Optional) Search list sequence number

Command Mode

- /exec

show ipv6 nd ra dns server

```
show ipv6 nd ra dns server [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <dns_server> <dns_addr> [ { <finite> | <infinite> } ] } ] <seq_no>
} } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
interface	(Optional) Display Recursive DNS Server List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>dns_supress_server_list</i>	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
<i>dns_server</i>	(Optional) DNS server number
<i>dns_addr</i>	(Optional) DNS server address
<i>finite</i>	(Optional) DNS server life time
<i>infinite</i>	(Optional) DNS server time infinte
<i>seq_no</i>	(Optional) DNS server sequence number

Command Mode

- /exec

show ipv6 nd rt-pref global pt

show ipv6 nd rt-pref global pt

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
rt-pref	Router Preference
global	Global
pt	PTREE

Command Mode

- /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 Mode

- /exec

show ipv6 neighbor static

```
show ipv6 neighbor static [ interface <interface> ] [ __readonly__ [ TABLE_i6_nei { <nei-ipv6> <nei-mac>
<nei-iod> <nei-if-iod> } ] [ <tot-nei-ent> ] [ TABLE_nei_cnt { <nei-ipv6-tot> <nei-mac-tot> <nei-iod-tot>
<nei-if-iod-tot> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
neighbor	Show IPv6 neighbor entry
static	Displays only static neighbors
interface	(Optional) Display IPv6 related interface information
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_i6_nei	(Optional)
<i>nei-mac</i>	(Optional)
<i>nei-iod</i>	(Optional)
<i>nei-if-iod</i>	(Optional)
<i>tot-nei-ent</i>	(Optional)
TABLE_nei_cnt	(Optional)
<i>nei-mac-tot</i>	(Optional)
<i>nei-iod-tot</i>	(Optional)
<i>nei-if-iod-tot</i>	(Optional)

Command Mode

- /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 Mode

- /exec

show ipv6 pim df

```
show ipv6 pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-context> { TABLE_rp <rp-addr> <df-ordinal> <df-bits> <df-bits-count> <metric-pref> <metric> {
TABLE_grange <grange-grp> <grange-masklen> } { TABLE_iod <if-name> <df-winner> <df-state>
<winner-metric-pref> <winner-metric> <uptime> <is-rpf> } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
df	Display Bidir Designated Forwarders
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)

<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

Command Mode

- /exec

show ipv6 pim 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

Command Mode

- /exec

show ipv6 pim event-history

show ipv6 pim [internal] event-history { errors | msgs | <pim6-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM6
errors	Show error logs of PIM6
msgs	Show various message logs of PIM6
<i>pim6-event-hist-buf-name</i>	Show logs of event-hist buffer
statistics	Show state and size of buffers

Command Mode

- /exec

show ipv6 pim fabric legacy-vlans

show ipv6 pim fabric legacy-vlans

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch

Command Mode

- /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
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>mode</i>	(Optional)

Command Mode

- /exec

show ipv6 pim interface show 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> <is-passive> <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> <pkts-on-passive>
<jp-rcvd-on-rpf> <jp-rcvd-no-rp> <jp-rcvd-wrong-rp> <jp-rcvd-for-ssm> <jp-rcvd-for-bidir>
<jp-in-policy-filter> <jp-out-policy-filter> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
interface	Display PIM6 interface related information
<i>interface</i>	Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</i>	(Optional)

<i>if-status</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)

<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)
<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)

Command Mode

- /exec

show ipv6 pim neighbor

```
show ipv6 pim neighbor { [ <interface> ] | [ <ipv6addr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
[ __readonly__ <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
<i>interface</i>	(Optional) Display neighbors on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_neighbor	(Optional)
<i>is-nbr-in-cib</i>	(Optional)
<i>does-nbr-exist</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>bidir-capable</i>	(Optional)

<i>name</i>	(Optional)
<i>no-name</i>	(Optional)
<i>no-sec-addr</i>	(Optional)

Command Mode

- /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
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ipv6 pim policy statistics jp

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
<i>interface</i>	Interface to display policy statistics for

Command Mode

- /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
bitfield	(Optional) Display details of each bitfield for PIM6 route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ipv6 pim rp-hash

```
show ipv6 pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
<rp-found> <is-rp-bsr-learnt> <out-group> <hash-length> <out-bsr> { TABLE_rp <rp-addr> <hash>
<isbest_hash> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp-hash	Display RP hash value for group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learnt</i>	(Optional)
<i>hash-length</i>	(Optional)
TABLE_rp	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

Command Mode

- /exec

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
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>is-bsr-enabled</i>	(Optional)
<i>is-bsr-listen-only</i>	(Optional)
<i>is-bsr-forward-only</i>	(Optional)
<i>are-we-bsr</i>	(Optional)
<i>is-bsr-address</i>	(Optional)
<i>bsr-priority</i>	(Optional)
<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)
<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)

<i>is-atorp-enabled</i>	(Optional)
<i>is-atorp-listen-only</i>	(Optional)
<i>is-atorp-forward-only</i>	(Optional)
<i>are-we-atorp</i>	(Optional)
<i>is-atorp-address</i>	(Optional)
<i>atorp-dis-timer</i>	(Optional)
<i>atorp-up-time</i>	(Optional)
<i>atorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
TABLE_arp_rp	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>is-rp-in-cib</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>atorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>is-rp-static</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>is-atorp-rp-owner</i>	(Optional)
<i>is-bsr-rp-owner</i>	(Optional)

<i>is-static-rp-owner</i>	(Optional)
---------------------------	------------

Command Mode

- /exec

show ipv6 pim statistics

```
show ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)
<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)
<i>cand-rp-sent</i>	(Optional)

<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

Command Mode

- /exec

show 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
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM6 is configured for
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)

Command Mode

- /exec

show ipv6 policy

```
show ipv6 policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ipv6 prefix-list

```
show ipv6 prefix-list { { [ detail | summary ] [ <ipv6-pfl-name> | <ipv6-pfl-cfg-name> ] } | { { <ipv6-pfl-name>
| <ipv6-pfl-cfg-name> } seq <seq-no> } | { { <ipv6-pfl-name> | <ipv6-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ipv6_pfl <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
detail	(Optional) Show detailed information
summary	(Optional) Show summarized information
prefix-list	List IPv6 prefix lists
<i>ipv6-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv6-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ipv6_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ipv6 process

```
show ipv6 process [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ipv6_all {
<cnxt-name> <cnxt-id> } ] [ TABLE_ipv6 { <ipv6-vrf> <ipv6-vrf-id> <auto-disc> <auto-add> <sta-disc>
<sta-def> [ <ipv6-unreach> } ] [ TABLE_iod { <iod-val> <iod-ifind> } ] [ TABLE_ipv6_nxt { <ipv6-nxt>
} ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_all	(Optional)
<i>cnxt-name</i>	(Optional)
<i>cnxt-id</i>	(Optional)
TABLE_ipv6	(Optional)
<i>ipv6-vrf</i>	(Optional)
<i>ipv6-vrf-id</i>	(Optional)
<i>auto-disc</i>	(Optional)
<i>auto-add</i>	(Optional)
<i>sta-disc</i>	(Optional)
<i>sta-def</i>	(Optional)
<i>ipv6-unreach</i>	(Optional)
TABLE_iod	(Optional)
<i>iod-val</i>	(Optional)
<i>iod-ifind</i>	(Optional)
TABLE_ipv6_nxt	(Optional)

Command Mode

- /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 Mode

- /exec

show ipv6 rip policy statistics redistribute

```
show ipv6 rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospfv3 |
lisp } <tag> | direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
lisp	LISP EID-prefixes
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ipv6 route

```
show { { ipv6 route } | { routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [
topology <topology-name> ] } } [ l3vm-info ] [ rpf ] [ <ipv6-addr> | <hostname> | { <ipv6-prefix> { {
longer-prefixes | shorter-prefixes } } ] [ { <ipv6-protocol> [ all ] } | { next-hop <next-hop> } | { interface
<interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary | { [ detail ] [ deleted ] } ] [
vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf
<addrf> TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path <ubest> <mbest>
<ipnexthop> <ifname> <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden>
] [ TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientname> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientname> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ] ]
```

Syntax Description

show	Show running system information
route	Display IPv6 routing table
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
<i>hostname</i>	(Optional) Display single route longest match lookup
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
<i>ipv6-protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
next-hop	(Optional) Display routes with this next-hop only
interface	(Optional) Display routes with this output interface only

<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
deleted	(Optional) Display delete-pending routes also
detail	(Optional) Display routes in full detail
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>stale</i>	(Optional)

<i>hidden</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientname</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientname</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

Command Mode

- /exec

show 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	(Optional) All routers even on down interface
interface	(Optional) Display neighbor router information on interface
<i>interface</i>	(Optional) Interface name to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_routers	(Optional)
TABLE_interface_ipv6	(Optional)
<i>ipv6-int-addr</i>	(Optional)
<i>rtr-flo-time</i>	(Optional)
<i>curr-hop-lmt</i>	(Optional)
<i>life-time</i>	(Optional)
<i>addr-flag</i>	(Optional)
<i>other-flg</i>	(Optional)
<i>mtu-rtr</i>	(Optional)
<i>hm-agent-flg</i>	(Optional)
<i>preference</i>	(Optional)
<i>reach-time</i>	(Optional)

<i>retrans-time</i>	(Optional)
TABLE_prefix_ipv6	(Optional)
<i>ipv6-prefix</i>	(Optional)
<i>buf-ipv6</i>	(Optional)
<i>buf-autono</i>	(Optional)
<i>valid-life-time</i>	(Optional)
<i>prefer-life</i>	(Optional)

Command Mode

- /exec

show ipv6 static-route

```
show ipv6 static-route [ <prefix> ] [ multicast ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_route <prefix-out> <next-hop> <intf-name> <pref>
<real-nh> <has-real-intf> <real-intf-name> TABLE_track-table ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
static-route	Display configured static routes
multicast	(Optional) Display configured static mroutes
track-table	(Optional) Display track object details associated with static routes
all	(Optional) Display all VRFs
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_route	(Optional)
<i>intf-name</i>	(Optional)
<i>pref</i>	(Optional)
<i>has-real-intf</i>	(Optional)
<i>real-intf-name</i>	(Optional)
TABLE_track-table	(Optional)

Command Mode

- /exec

show ipv6 statistics

show ipv6 statistics

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
statistics	Display IPv6 global statistics

Command Mode

- /exec

show ipv6 traffic

```
show ipv6 traffic [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_ipv6_traffic <uptime> <upkt-fwd> <mpkt-fwd> <ubyte-fwd> <mbyte-fwd>
<upkt-orig> <mpkt-orig> <ubyte-orig> <mbyte-orig> <upkt-consumed> <mpkt-consumed> <ubyte-consumed>
<mbyte-consumed> <ufrag-orig> <mfra-orig> <ufrag-consumed> <mfrag-consumed> <bad-version>
<rt-lookup-fail> <hoplimit-excd> <opt-header-error> <pld-length-too-small> <pm-failed> <mbuf-error>
<could-not-enc> <dest-if-down> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
traffic	Display IPv6 traffic statistics
detail	(Optional) Display per protocol IPv6 statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_ipv6_traffic	(Optional)
<i>uptime</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)

<i>ubyte-consumed</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>ufrag-orig</i>	(Optional)
<i>mfra-orig</i>	(Optional)
<i>ufrag-consumed</i>	(Optional)
<i>mfrag-consumed</i>	(Optional)
<i>bad-version</i>	(Optional)
<i>rt-lookup-fail</i>	(Optional)
<i>hoplimit-excd</i>	(Optional)
<i>opt-header-error</i>	(Optional)
<i>pld-length-too-small</i>	(Optional)
<i>pm-failed</i>	(Optional)
<i>mbuf-error</i>	(Optional)
<i>could-not-enc</i>	(Optional)
<i>dest-if-down</i>	(Optional)

Command Mode

- /exec

show isis

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ process | protocol ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
process	(Optional) Display IS-IS process information
protocol	(Optional) Display IS-IS process information
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>instance_num</i>	(Optional)
<i>uuid</i>	(Optional)
<i>process_id</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>system-id-out</i>	(Optional)

<i>is-type-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>gr-t3-timer-out</i>	(Optional)
<i>gr-status-out</i>	(Optional)
<i>gr-state-out</i>	(Optional)
<i>last-gr-status-out</i>	(Optional)
<i>bfd-ipv4-state-out</i>	(Optional)
<i>bfd-ipv6-state-out</i>	(Optional)
<i>metric-send-out</i>	(Optional)
<i>metric-accept-out</i>	(Optional)
<i>area-addr-out</i>	(Optional)
<i>proc-state-out</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
TABLE_te	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-rtrid-intf-out</i>	(Optional)
TABLE_te_fa	(Optional)
<i>te-fa-sysid-out</i>	(Optional)
<i>te-fa-intf-out</i>	(Optional)
<i>te-stat-sys-id-out</i>	(Optional)
<i>te-stat-rtr-id-out</i>	(Optional)
TABLE_te_stat_lvl	(Optional)
<i>te-stat-lvl-out</i>	(Optional)
<i>te-stat-up-out</i>	(Optional)
<i>te-stat-down-out</i>	(Optional)

<i>intf-name-out</i>	(Optional)
<i>auth-out</i>	(Optional)
<i>auth-chk-out</i>	(Optional)
<i>auth-kchain-out</i>	(Optional)
TABLE_redist	(Optional)
<i>max_redist</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>intf-num-out</i>	(Optional)
<i>adj-check-out</i>	(Optional)
<i>redist-pib-out</i>	(Optional)
<i>redist-rpm-out</i>	(Optional)
<i>dist-src-lvl-out</i>	(Optional)
<i>dist-dest-lvl-out</i>	(Optional)
<i>dist-leak-all-out</i>	(Optional)
<i>dist-rpm-out</i>	(Optional)
<i>admin-dist-out</i>	(Optional)

Command Mode

- /exec

show isis adjacency

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency [ <interface> [ p2p-level-1-2
] ] { [ system-id <sid> ] | [ detail ] | [ summary ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ <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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
adjacency	Display IS-IS adjacency information
<i>interface</i>	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
p2p-level-1-2	(Optional) Display IS-IS point-to-point information at level-1-2
summary	(Optional) Display IS-IS adjacency summary information
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)

<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)
<i>adj-interface-name-out</i>	(Optional)
<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-ipv4-addr-out</i>	(Optional)
<i>adj-ipv6-addr-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-bfd-ipv4-establish-out</i>	(Optional)
<i>adj-bfd-ipv6-establish-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)
<i>adj-resurrect-hwm-out</i>	(Optional)
<i>adj-restart-capable-out</i>	(Optional)
<i>adj-restart-ack-out</i>	(Optional)
<i>adj-restart-mode-out</i>	(Optional)
<i>adj-restart-adj-seen-ra-out</i>	(Optional)

<i>adj-restart-adj-seen-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l1-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l2-csnp-out</i>	(Optional)
<i>adj-restart-suppress-adj-out</i>	(Optional)
<i>adj-summ-p2p-level-out</i>	(Optional)
<i>adj-summ-p2p-state-out</i>	(Optional)
<i>adj-summ-p2p-count-out</i>	(Optional)
<i>adj-summ-lan-level-out</i>	(Optional)
<i>adj-summ-lan-state-out</i>	(Optional)
<i>adj-summ-lan-count-out</i>	(Optional)

Command Mode

- /exec

show isis csnp

```
show isis [ <isis-tag> ] csnp [ detail ] [ __readonly__ TABLE_process_tag <process-tag-out> [ {
TABLE_CSNPLEVEL <csnp-level> <csnp-cache-valid> <csnp-cache-hit> <cscnp-cache-miss> <csnp-hit-rate>
[ { TABLE_CSNPLSPS <csnp-start-lsp-id> <csnp-end-lsp-id> <csnp-entry-valid> <csnp-pdu-length> [ {
TABLE_CSNPONELSP <csnp-lsp-id> <csnp-lsp-seq-num> <csnp-lsp-chk-sum> <csnp-lsp-life-time> } ] }
] } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
csnp	Display IS-IS CSNP cache contents
detail	(Optional) Display detailed IS-IS information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_CSNPLEVEL	(Optional)
<i>csnp-level</i>	(Optional)
<i>csnp-cache-valid</i>	(Optional)
<i>csnp-cache-hit</i>	(Optional)
<i>cscnp-cache-miss</i>	(Optional)
<i>csnp-hit-rate</i>	(Optional)
TABLE_CSNPLSPS	(Optional)
<i>csnp-start-lsp-id</i>	(Optional)
<i>csnp-end-lsp-id</i>	(Optional)
<i>csnp-entry-valid</i>	(Optional)
<i>csnp-pdu-length</i>	(Optional)
TABLE_CSNPONELSP	(Optional)
<i>csnp-lsp-id</i>	(Optional)
<i>csnp-lsp-seq-num</i>	(Optional)
<i>csnp-lsp-chk-sum</i>	(Optional)

<i>csnp-lsp-life-time</i>	(Optional)
---------------------------	------------

Command Mode

- /exec

show isis database

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ <level> ] [ detail | advertise
| summary ] [ <lid> ] { [ zero-sequence ] | [ ip prefix <ip-prefix> ] | [ ipv6 prefix <ipv6-prefix> ] | [ router-id
<rid> ] | [ adjacency <adj-id> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Display IS-IS database information
<i>level</i>	(Optional) IS-IS level
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information
advertise	(Optional) Display advertise tlv lsp-memory information
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number

ip	(Optional) IP attribute filter
ipv6	(Optional) IPv6 attribute filter
prefix	(Optional) Prefix filter
<i>ip-prefix</i>	(Optional) Single exact match IP prefix filter
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
router-id	(Optional) Router-id filter
<i>rid</i>	(Optional) single exact match router-id filter
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
<i>dbase-level-out</i>	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)
<i>dbase-overload-out</i>	(Optional)
<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)

<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)
<i>dbase-lsp-auth-len-out</i>	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)
<i>dbase-lsp-extip-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)

<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)
<i>dbase-lsp-malformed-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)

Command Mode

- /exec

show isis event-history

```
show isis [ <isis-tag> ] [ internal ] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
internal	(Optional) Commands for internal use
event-history	Display IS-IS event history
errors	Error history
msgs	Message history
<i>isis-event-hist-buf-name</i>	Event history buffer
statistics	Show the state and size of the buffer

Command Mode

- /exec

show isis hostname

```
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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
hostname	Display IS-IS hostname table information
hostname-table	Display IS-IS hostname table information
detail	(Optional) Display detailed IS-IS information
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>hname-enabled-out</i>	(Optional)
<i>hname-detail-out</i>	(Optional)
<i>hname-level-out</i>	(Optional)
<i>hname-id-out</i>	(Optional)
<i>hname-id-mine-out</i>	(Optional)
<i>hname-name-out</i>	(Optional)

Command Mode

- /exec

show isis interface

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ brief | <interface> | internal
] [ level-1 | level-2 ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf
<vrf-name-out> <intf-name-out> <intf-status-out> <intf-mtu-out> <intf-state-out> <intf-internal-state-out>
<intf-cib-disabled-out> <intf-cid-invalid-out> <intf-ix-out> <intf-cid-out> <intf-ckt-type-out>
<intf-auth-info-out> <intf-auth-chk-info-out> <intf-auth-kchain-out> <intf-bfd-ipv4-state-out>
<intf-bfd-ipv6-state-out> <intf-passive-mask-out> <intf-passive-mask-lvl-out> <intf-mgrp-set-out>
<intf-mgrp-state-out> <intf-mgrp-id-out> <intf-p2p-type-out> <intf-p2p-ext-local-cid-out> <intf-p2p-cid-out>
<intf-retx-intv-out> <intf-retx-throttle-out> <intf-loopback-type-out> <intf-lsp-intv-out> <intf-hpad-state-out>
<intf-p2p-pad-ts-out> <intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out> <intf-p2p-prio-out>
<intf-p2p-hello-intv-out> <intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> <intf-p2p-lvl-out>
<intf-p2p-adj-lvl-out> <intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out>
<intf-p2p-csnp-nxt-lvl-out> <intf-p2p-lspid-last-lvl-out> <intf-bcast-type-out> <intf-bcast-lvl-out>
<intf-bcast-pad-ts-out> <intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> <intf-bcast-lvl-info-out>
<intf-bcast-lvl-metric-out> <intf-bcast-lvl-csnp-intv-out> <intf-bcast-lvl-csnp-next-out>
<intf-bcast-lvl-iih-intv-out> <intf-bcast-lvl-iih-multi-out> <intf-bcast-lvl-iih-next-out>
<intf-bcast-lvl-value-out> <intf-bcast-lvl-adj-out> <intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out>
<intf-bcast-lvl-ctid-out> <intf-bcast-lvl-ctid-ts-out> <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out>
<intf-loopback-lvl-prio-out> <intf-loopback-lvl-adj-out> <intf-loopback-lvl-adj-up-out> <intf-unknown-out>
<intf-type-out> <intf-ready-state-out> ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
brief	(Optional) Brief display of IS-IS interfaces
interface	Display IS-IS interface information
level-1	(Optional) Display Level-1 interfaces
level-2	(Optional) Display level-2 interfaces
internal	(Optional) Display level-2 interfaces
<i>interface</i>	(Optional) IS-IS interface
__readonly__	(Optional)
<i>tag-out</i>	(Optional)

TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)
<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-bfd-ipv4-state-out</i>	(Optional)
<i>intf-bfd-ipv6-state-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)
<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)

<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)
<i>intf-p2p-hello-next-out</i>	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)
<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-nxt-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)
<i>intf-bcast-type-out</i>	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)

<i>intf-bcast-lvl-adj-up-out</i>	(Optional)
<i>intf-bcast-lvl-prio-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-loopback-lvl-prio-out</i>	(Optional)
<i>intf-loopback-lvl-adj-out</i>	(Optional)
<i>intf-loopback-lvl-adj-up-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)
<i>intf-type-out</i>	(Optional)
<i>intf-ready-state-out</i>	(Optional)

Command Mode

- /exec

show isis ipv6 redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 redistribute route [ 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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ipv6	Display IS-IS IPv6 information
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-route-ipv6-vrf</i>	(Optional)
<i>redist-route-ipv6-af-ix</i>	(Optional)
<i>redist-route-ipv6-prefix</i>	(Optional)
<i>redist-route-ipv6-mask-len</i>	(Optional)

<i>redist-route-ipv6-pib-name</i>	(Optional)
<i>redist-route-ipv6-direct-mask</i>	(Optional)
<i>redist-route-ipv6-route-type</i>	(Optional)
<i>redist-route-ipv6-status</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-ipv6-level</i>	(Optional)
<i>redist-route-ipv6-metric</i>	(Optional)
<i>redist-route-ipv6-sum-addr-prefix</i>	(Optional)
<i>redist-route-ipv6-sum-addr-mask-len</i>	(Optional)
<i>redist-route-ipv6-summary-route-total</i>	(Optional)
<i>redist-route-ipv6-prot-route-total</i>	(Optional)
<i>redist-route-ipv6-summary-pending-total</i>	(Optional)
<i>redist-route-ipv6-summary-mask-len-ix</i>	(Optional)
<i>redist-route-ipv6-summary-mask-len</i>	(Optional)

Command Mode

- /exec

show isis ipv6 route-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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
route-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)
<i>as</i>	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)
<i>tag</i>	Process tag
distribute	Distribute routes between ISIS levels

into	from level-n into level-m
<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>route-map-stat-vrf</i>	(Optional)

Command Mode

- /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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
orphan	Display orphan LSP information
lsp	Display IS-IS LSP information
free-list	Display free-list information
summary	(Optional) Display LSP count per free-list

Command Mode

- /exec

show isis mesh-group

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] mesh-group [ <mesh-id> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mesh-group	Display IS-IS mesh-groups
<i>mesh-id</i>	(Optional) Display a single mesh-group
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-out</i>	(Optional)
<i>mesh-set-id-out</i>	(Optional)
<i>mesh-id-intf-name-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)

Command Mode

- /exec

show isis non 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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
tlv	Display IS-IS TLV information
overflow-list	Display ISIS TLV overflow-list information

Command Mode

- /exec

show isis redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] redistribute route [ summary |
<ip-addr> | <ip-prefix> [ longer-prefixes [ summary ] ] [ direct-mask ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-route-vrf> [ <redist-route-af-ix> ] [
<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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	(Optional) Display IS-IS IPv4 information
<i>ip-addr</i>	(Optional) Display single IP redistribute route
<i>ip-prefix</i>	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
<code>__readonly__</code>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-route-vrf</i>	(Optional)
<i>redist-route-af-ix</i>	(Optional)
<i>redist-route-prefix</i>	(Optional)

<i>redist-route-mask-len</i>	(Optional)
<i>redist-route-pib-name</i>	(Optional)
<i>redist-route-direct-mask</i>	(Optional)
<i>redist-route-route-type</i>	(Optional)
<i>redist-route-status</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-level</i>	(Optional)
<i>redist-route-metric</i>	(Optional)
<i>redist-route-sum-addr-prefix</i>	(Optional)
<i>redist-route-sum-addr-mask-len</i>	(Optional)
<i>redist-route-summary-route-total</i>	(Optional)
<i>redist-route-prot-route-total</i>	(Optional)
<i>redist-route-summary-pending-total</i>	(Optional)
<i>redist-route-summary-mask-len-ix</i>	(Optional)
<i>redist-route-summary-mask-len</i>	(Optional)

Command Mode

- /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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route-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)
<i>as</i>	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
<i>tag</i>	Process tag
distribute	Distribute routes between ISIS levels

into	from level-n into level-m
<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>route-map-stat-vrf</i>	(Optional)

Command Mode

- /exec

show isis route show isis ipv6 route show 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-iframe-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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
ipv6	Display IS-IS IPv6 information
is	Display IS route
route	Display IS-IS route information
<i>ip-addr</i>	(Optional) Display single IP route
<i>ip-prefix</i>	(Optional) Display single exact match IP route
longer-prefixes	(Optional) Display exact match and more specific routes

summary	(Optional) Display route counts
detail	(Optional) Display detail route information
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
<i>isis-tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>route-absent-out</i>	(Optional)
<i>route-lvl-absent-out</i>	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)

<i>route-marker-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)
<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)

<i>route-pend-q-count-out</i>	(Optional)
-------------------------------	------------

Command Mode

- /exec

show isis rrm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] rrm <interface> [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <rrm-if-name> [ {
TABLE_rrm <rrm-level> <rrm-retx-interval> <rrm-retx-throttle-interval> <rrm-retx-queue-length>
<rrm-next-retx> <rrm-retx-queue-hwm> <rrm-retx-queue-exceed> <rrm-dbase-hdr> [ <rrm-timestamp> ] [
<rrm-lsp-retx-instance> ] [ <rrm-lsp-db-instance> ] [ <rrm-rrm-set> ] [ <rrm-srm-set> ] } } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
rrm	Display IS-IS Retransmit-Routing-Message information
<i>interface</i>	IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>rrm-if-name</i>	(Optional)
TABLE_rrm	(Optional)
<i>rrm-level</i>	(Optional)
<i>rrm-retx-interval</i>	(Optional)
<i>rrm-retx-throttle-interval</i>	(Optional)
<i>rrm-retx-queue-length</i>	(Optional)
<i>rrm-next-retx</i>	(Optional)
<i>rrm-retx-queue-hwm</i>	(Optional)
<i>rrm-retx-queue-exceed</i>	(Optional)
<i>rrm-dbase-hdr</i>	(Optional)
<i>rrm-timestamp</i>	(Optional)

<i>rrm-lsp-retx-instance</i>	(Optional)
<i>rrm-lsp-db-instance</i>	(Optional)
<i>rrm-rrm-set</i>	(Optional)
<i>rrm-srm-set</i>	(Optional)

Command Mode

- /exec

show isis 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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-adjacency	Display IS-IS SPF adjacency information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>spf-adjacency-vrf</i>	(Optional)
<i>spf-adjacency-system-name</i>	(Optional)
<i>spf-adjacency-refcount</i>	(Optional)
<i>spf-adjacency-if-name</i>	(Optional)
<i>spf-adjacency-rib-addr</i>	(Optional)
<i>spf-adjacency-rib-addr-valid</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr-valid</i>	(Optional)
<i>spf-adjacency-spf-addr</i>	(Optional)
<i>spf-adjacency-spf-ipv6-addr</i>	(Optional)
TABLE_SPFADJLEVEL	(Optional)

<i>spf-adjacency-level</i>	(Optional)
----------------------------	------------

Command Mode

- /exec

show isis spf-log

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ detail ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ <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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
<i>spflog-ago-time-out</i>	(Optional)
<i>spflog-lvl-out</i>	(Optional)
<i>spflog-reason-out</i>	(Optional)
<i>spflog-count-out</i>	(Optional)
<i>spflog-elapsed-ts-out</i>	(Optional)

<i>spflog-log-num-out</i>	(Optional)
<i>spflog-ts-detail-out</i>	(Optional)
<i>spflog-date-detail-out</i>	(Optional)
<i>spflog-lvl-detail-out</i>	(Optional)
<i>spflog-instance-detail-out</i>	(Optional)
<i>spflog-init-ts-detail-out</i>	(Optional)
<i>spflog-spf-ts-detail-out</i>	(Optional)
<i>spflog-detail-ts-is-out</i>	(Optional)
<i>spflog-detail-ts-urib-out</i>	(Optional)
<i>spflog-detail-ts-elapsed-out</i>	(Optional)
<i>spflog-detail-lvl-out</i>	(Optional)
<i>spflog-detail-spf-cnt-out</i>	(Optional)
<i>spflog-detail-sync-cnt-out</i>	(Optional)
<i>spflog-detail-spf-reason-out</i>	(Optional)

Command Mode

- /exec

show isis srm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] srm <interface> [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <srm-if-name> [ {
TABLE_srm <srm-level> <srm-if-eligible> <srm-if-not-on-srm-list> <srm-lsp-interval> <srm-next-lsp>
<srm-dbase-hdr> } } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
srm	Display IS-IS Send-Routing-Message information
<i>interface</i>	IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>srm-if-name</i>	(Optional)
TABLE_srm	(Optional)
<i>srm-level</i>	(Optional)
<i>srm-if-eligible</i>	(Optional)
<i>srm-if-not-on-srm-list</i>	(Optional)
<i>srm-lsp-interval</i>	(Optional)
<i>srm-next-lsp</i>	(Optional)
<i>srm-dbase-hdr</i>	(Optional)

Command Mode

- /exec

show isis ssn

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ssn <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <snn-if-name> [ { TABLE_ssn <snn-level> <snn-psnp-eligible> <snn-next-psnp> <snn-dbase_hdr> } ] } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ssn	Display IS-IS Send-Sequence-Number information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>snn-if-name</i>	(Optional)
TABLE_ssn	(Optional)
<i>snn-level</i>	(Optional)
<i>snn-psnp-eligible</i>	(Optional)
<i>snn-next-psnp</i>	(Optional)
<i>snn-dbase_hdr</i>	(Optional)

Command Mode

- /exec

show isis statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Display IS-IS protocol statistics
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>stat-if-out</i>	(Optional)
<i>stat-if-name-out</i>	(Optional)
<i>stat-spf-calc-out</i>	(Optional)
<i>stat-lsp-sourced-out</i>	(Optional)
<i>stat-lsp-refresh-out</i>	(Optional)
<i>stat-lsp-purge-out</i>	(Optional)
<i>stat-dis-elections-out</i>	(Optional)

Command Mode

- /exec

show isis summary-address show isis 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
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
ipv6	Display IS-IS IPv6 information
summary-address	Display IS-IS summary address
<i>ip-addr</i>	(Optional) Display single IP summary address
<i>ip-prefix</i>	(Optional) Display single exact match IP summary address
longer-prefixes	(Optional) Display exact match and more specific summary address
<i>isis-tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>addr-absent-out</i>	(Optional)
<i>addr-prefix-out</i>	(Optional)
<i>addr-mask-len-out</i>	(Optional)

show isis summary-address show isis ipv6 summary-address

<i>addr-level-out</i>	(Optional)
<i>addr-num-out</i>	(Optional)
<i>addr-lvl-out</i>	(Optional)
<i>addr-metric-absent-out</i>	(Optional)
<i>addr-metric-out</i>	(Optional)
<i>addr-route-count-out</i>	(Optional)

Command Mode

- /exec

show isis topology

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] topology [ 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
<i>isis-tag</i>	(Optional) Routing process tag
topology	Display IS-IS Topology information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>topology-vrf</i>	(Optional)

Command Mode

- /exec

show isis traffic

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ mbuf-priority
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out>
<traffic-if-out> <traffic-if-name-out> <traffic-lan-iih-out> <traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out>
<traffic-lan-iih-rcv-auth-err-out> <traffic-lan-iih-rcv-err-out> <traffic-p2p-iih-out> <traffic-p2p-iih-rcv-out>
<traffic-p2p-iih-xmit-out> <traffic-p2p-iih-rcv-auth-err-out> <traffic-p2p-iih-rcv-err-out> <traffic-csnp-out>
<traffic-csnp-rcv-out> <traffic-csnp-xmit-out> <traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out>
<traffic-psnp-out> <traffic-psnp-rcv-out> <traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out>
<traffic-psnp-rcv-err-out> <traffic-lsp-out> <traffic-lsp-rcv-out> <traffic-lsp-flood-out>
<traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out> <traffic-lsp-rexmit-out> <traffic-xmit-err-out>
<traffic-unknown-pdu-rcv-out> ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Display IS-IS traffic information
<i>interface</i>	(Optional) IS-IS interface
mbuf-priority	(Optional) Display mbuf priorities for received PDUs
<u>__readonly__</u>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>traffic-if-out</i>	(Optional)
<i>traffic-if-name-out</i>	(Optional)
<i>traffic-lan-iih-out</i>	(Optional)
<i>traffic-lan-iih-rcv-out</i>	(Optional)
<i>traffic-lan-iih-xmit-out</i>	(Optional)
<i>traffic-lan-iih-rcv-auth-err-out</i>	(Optional)

<i>traffic-lan-iih-rcv-err-out</i>	(Optional)
<i>traffic-p2p-iih-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-out</i>	(Optional)
<i>traffic-p2p-iih-xmit-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-err-out</i>	(Optional)
<i>traffic-csnp-out</i>	(Optional)
<i>traffic-csnp-rcv-out</i>	(Optional)
<i>traffic-csnp-xmit-out</i>	(Optional)
<i>traffic-csnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-csnp-rcv-err-out</i>	(Optional)
<i>traffic-psnp-out</i>	(Optional)
<i>traffic-psnp-rcv-out</i>	(Optional)
<i>traffic-psnp-xmit-out</i>	(Optional)
<i>traffic-psnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-psnp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-out</i>	(Optional)
<i>traffic-lsp-rcv-out</i>	(Optional)
<i>traffic-lsp-flood-out</i>	(Optional)
<i>traffic-lsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-lsp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-rexmit-out</i>	(Optional)
<i>traffic-xmit-err-out</i>	(Optional)
<i>traffic-unknown-pdu-rcv-out</i>	(Optional)

Command Mode

- /exec

<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>userACL</i>	(Optional) user access-list
<i>peer_status</i>	(Optional) peer status
TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
<i>dg_probe</i>	(Optional) probe type
<i>dg_probe_port</i>	(Optional) probe port
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
<i>ace_name</i>	(Optional) ace information
<i>ace_seq</i>	(Optional) ace information
<i>ace_ip</i>	(Optional) ace information
<i>ace_protocol</i>	(Optional) ace information
<i>ace_port</i>	(Optional) ace information
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config

<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_node_probe</i>	(Optional) node probe type
<i>vip_node_probe_port</i>	(Optional) node probe port
<i>vip_node_probe_ip</i>	(Optional) node probe ip
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_standby	(Optional)
<i>vip_standby_ip</i>	(Optional) standby node ip
<i>vip_standby_ipv6</i>	(Optional) standby node ipv6
<i>vip_standby_config</i>	(Optional) standby node config
<i>vip_standby_weight</i>	(Optional) standby node weight
<i>vip_standby_status</i>	(Optional) standby node status
<i>vip_standby_probe</i>	(Optional) standby node probe type
<i>vip_standby_probe_port</i>	(Optional) standby node probe port
<i>vip_standby_probe_ip</i>	(Optional) standby node probe ip
<i>vip_standby_track_id</i>	(Optional) standby node track id
<i>vip_standby_sla_id</i>	(Optional) standby node sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>node_probe</i>	(Optional) node probe type
<i>node_probe_port</i>	(Optional) node probe port
<i>node_probe_ip</i>	(Optional) node probe ip

<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_standby	(Optional)
<i>standby_ip</i>	(Optional) standby node ip
<i>standby_ipv6</i>	(Optional) standby node ipv6
<i>standby_config</i>	(Optional) standby node config
<i>standby_weight</i>	(Optional) standby node weight
<i>standby_status</i>	(Optional) standby node status
<i>standby_probe</i>	(Optional) standby node probe type
<i>standby_probe_port</i>	(Optional) standby node probe port
<i>standby_probe_ip</i>	(Optional) standby node probe ip
<i>standby_track_id</i>	(Optional) standby node track id
<i>standby_sla_id</i>	(Optional) standby node sla id
TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

Command Mode

- /exec

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

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

<i>standby_status</i>	(Optional) standby node status
<i>standby_probe</i>	(Optional) standby node probe type
<i>standby_probe_port</i>	(Optional) standby node probe port
<i>standby_probe_ip</i>	(Optional) standby node probe ip
<i>standby_track_id</i>	(Optional) standby node track id
<i>standby_sla_id</i>	(Optional) standby node sla id
TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

Command Mode

- /exec

show itd session device-group

```
show itd session device-group [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <node> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
session	ITD service session
device-group	ITD service session device-group
<i>name</i>	(Optional) ITD Service session name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>node</i>	(Optional) node

Command Mode

- /exec

show itd statistics

```
show itd { <service_name> | all } [ src { <src-ip> | <src-IPv6> } | dst { <dst-ip> | <dst-IPv6> } ] statistics [
brief ] [ __readonly__ <is_firstentry_node> <is_firstentry_acl> <is_for_ace> [ TABLE_nice <service_name>
[ <vip> ] [ <ace_seq> ] [ <ace_ip> ] [ <vip_pkt> ] <dev_grp> <node> <node_pkt> [ <acl> ] [ <acl_pkt> ]
<mode> <percentage> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
__readonly__	(Optional) Read Only
<i>is_firstentry_node</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
<i>is_for_ace</i>	(Optional)
TABLE_nice	(Optional)
<i>service_name</i>	service_name
all	All ITD services
src	(Optional) Statistics for src ip
<i>src-ip</i>	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
<i>dst-ip</i>	(Optional) Provide statistics for dst ip
<i>vip</i>	(Optional) service virtual ip
<i>ace_seq</i>	(Optional) service ACE name and sequence number
<i>ace_ip</i>	(Optional) service ACE ip/mask/prefix
<i>vip_pkt</i>	(Optional) virtual ip pkt_count
<i>dev_grp</i>	(Optional) device group
<i>node</i>	(Optional) service node ip
<i>node_pkt</i>	(Optional) node pkt count
<i>acl</i>	(Optional) access list

<i>acl_pkt</i>	(Optional) acl pkt count
<i>mode</i>	(Optional) Redirect mode
<i>percentage</i>	(Optional) Packet percentage

Command Mode

- /exec

show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
vrf	ITD service vrf
<i>name</i>	(Optional) ITD Service VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>service_name</i>	(Optional) itd service name
<i>vrf_name</i>	(Optional) vrf name
<i>vrf_id</i>	(Optional) vrf id

Command Mode

- /exec

show itd vrf